



Clavinova

CLP-280/270

DATA LIST

DATEN-LISTE

LISTE DES DONNÉES

LISTA DE DATOS

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Normal (Default) Setting List
Liste der Grundeinstellungen (Default)
Liste des réglages normaux (par défaut)
Lista de ajustes normales (predeterminados)

| Parameter name | Value |
|-----------------|---------------------------------------|
| Voice selection | Grand Piano 1 |
| Split mode | Off |
| Split point | F#2 |
| Reverb On/Off | ON |
| Chorus On/Off | per voice |
| Brilliance mode | Normal |
| Tempo | 120 |
| Song balance | Song balance slider value at power-on |

■ FILE/SONG SETTING

| Parameter name | Settings | Value |
|-------------------|--------------------------------------------------------------------------------|---------------|
| SongAutoOpen | Automatically selecting a song in storage media | On |
| CharacterCode | Changing the type of characters on screen | International |
| SongRepeat | Playing back a song/all songs repeatedly | RepeatOff |
| PhraseMark | Playing back the phrase specified by the phrase number | |
| Quantize Strength | Correcting note timing Determining how strongly the notes will be quantized | 1/16 50% |
| QuickPlay | Specifying whether playback starts immediately along with the first voicing | On |
| ChannelListen | Auditioning the channels | Ch1 |
| ChannelClear | Deleting data from each channel | Ch1 |
| RecStart | Selecting a record starting method | Normal |
| RecEnd | Selecting a record ending method | Replace |
| RecExtraPartsCh | Recording parts 3-16 (Extra Parts) | Ch5 |

■ METRONOME SETTING

| Parameter name | Settings | Value |
|-----------------|--------------------------------------|---------|
| TimeSignature | Setting the metronome time signature | 4/4 |
| MetronomeVolume | Setting the metronome volume level | 100 |
| MetronomeSound | Setting the metronome voice | BellOff |

■ VOICE SETTING

The default value of each parameter is different for each voice.

■ iAFC SETTING

| Parameter name | Settings | Value |
|-----------------|-------------------------------------------|-------|
| iAFC | Turning iAFC on/off | On |
| DynDmpFX Depth | Adjusting the Dynamic Damper Effect depth | 98 |
| SpatialFX Depth | Adjusting the Spatial Effect depth | 14 |

■ FUNCTION

| Parameter name | Settings | Value |
|----------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Transpose | Changing the key Transposition amount | Master 0 |
| TouchResponse | Selecting a touch response Fixed volume | Medium 64 |
| Tune | Fine tuning the pitch | A3=440.0Hz |
| PianoTuningCurve | Selecting a tuning curve for a piano voice | Stretch |
| Scale | Selecting a scale Root note | Equal C |
| SplitPoint | Specifying the Split Point | F#2 |
| RPedalFunc | Setting the right pedal function | per voice |
| CPedalFunc | Setting the center pedal function | per voice |
| LPedalFunc | Setting the left pedal function | per voice |
| AuxPedalFunc | Setting the auxiliary pedal function | per voice |
| RPedalOnOff | Turning the right pedal function on/off | per voice |
| CPedalOnOff | Turning the center pedal function on/off | per voice |
| LPedalOnOff | Turning the left pedal function on/off | per voice |
| AuxPedalOnOff | Turning the auxiliary pedal function on/off | per voice |
| PedalPlay/Pause | Assigning the SONG [PLAY/PAUSE] function to the pedal | All pedals: Off |
| AuxPedalType | Selecting a type of auxiliary pedal | Make |
| HalfPedalPoint | Setting the point at which the damper pedal starts to affect the sound | 0 |
| SoftPedalDepth | Adjusting the depth of the Soft pedal | 5 |
| StringResonanceDepth | Setting the depth of string resonance | 5 |
| SustainSamplingDepth | Setting the depth of sustain sampling for the damper pedal | 5 |
| KeyOffSamplingDepth | Specifying the volume of the key-off sound | 5 |
| PitchBendRange | Setting the range of pitch bend | 2 |
| Speaker | Switching the speaker on/off | Normal (HeadphoneSW) |
| AuxOutLevel | Selecting the AUX OUT level (Fixed/Variable) | Fixed |
| MidiOutChannel | Setting the MIDI transmit channel | Main: Midi/Usb1 Ch1 Left: Midi/Usb1 Ch2 Layer: Midi/Usb1 Ch3 LeftLayer: Midi/Usb1 Ch4 |
| MidInChannel | Setting the MIDI receive channel | Midi/Usb1 Ch1 – 16: Song Usb2 Ch1: Keyboard Usb2 Ch2: Main Usb2 Ch3: Left Usb2 Ch4: Layer Usb2 Ch5: LeftLayer Others: Off |
| LocalControl | Turning local control on/off | On |
| MidiOutSelect | Selecting performance from the keyboard or song data for MIDI transmission | Keyboard |
| ReceiveParameter | Selecting a type of data received via MIDI | All data: On |
| TransmitParameter | Selecting a type of data transmitted via MIDI | All data: On |
| MemoryBackup | Selecting items saved at shutdown | Transpose, Main/LeftVoice, MetronomeSetting, Function (except for Transpose, SplitPoint and Midi settings): Off, Others: On |
| FactorySet | Restoring the normal (default) settings | MemorySongExcluded |

XG Voice List / XG Voice-Liste / Liste des voix XG / Lista de sonidos XG

■ Bank Select MSB=00

| Instrument Group | Pgm# | Bank 0 | | KSP | | Stereo | | Single | | Slow | | Fast Decay | | Double Attack | | Bright | | Dark | | Resonant | | Attack | | | | | | |
|----------------------|------|-------------------------|------------|--------|----------|--------|---|--------|---|--------|---|------------|---|---------------|---|---------|---|---------|---|----------|----------|---------|---|---------|---|---------|---|---------|
| | | Bank Select LSB=00 | | Bank 0 | E | Bank 1 | E | Bank 3 | E | Bank 6 | E | Bank 8 | E | Bank 12 | E | Bank 14 | E | Bank 16 | E | Bank 17 | E | Bank 18 | E | Bank 19 | E | Bank 20 | E | Bank 24 |
| Piano | 1 | Acoustic Grand Piano | GrandPno | 2 | GndPnoK | 1 | | | | | | | | | | | | | | | MelloGrP | 2 | | | | | | |
| | 2 | Bright Acoustic Piano | BritePno | 2 | BriPnoK | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | Electric Grand Piano | ElGrand | 2 | ElGrPnoK | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | Honky-tonk Piano | HnkyTrnk | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | Electric Piano 1 | E.Piano1 | 2 | El.Pno1K | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | Electric Piano 2 | E.Piano2 | 2 | El.Pno2K | 1 | | | | | | | | | | | | | | | MelloEP1 | 2 | | | | | | |
| | 7 | Harpsichord | Harpsi. | 1 | Harps.K | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | Clavi | Clavi | 2 | Clavi K | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Chromatic Percussion | 9 | Celesta | Celesta | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | Glockenspiel | Glocken | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | Music Box | MusicBox | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | Vibraphone | Vibes | 1 | Vibes K | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | Marimba | Marimba | 1 | MarimbaK | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | Xylophone | Xylophon | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | Tubular Bells | TubulBel | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | Dulcimer | Dulcimer | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Organ | 17 | Drawbar Organ 1 | DrawOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | Percussive Organ | PercOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | Rock Organ | RockOrgn | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | Church Organ 1 | ChrchOrg | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | Reed Organ | ReedOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | Accordion | Acordion | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | Harmonica | Harmonica | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | Tango Accordion | TangoAccd | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Guitar | 25 | Acoustic Guitar (nylon) | NylonGtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | Acoustic Guitar (steel) | SteelGtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | Electric Guitar (jazz) | Jazz Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | Electric Guitar (clean) | CleanGtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | Electric Guitar (muted) | Mute.Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | Overdrive Guitar | Ovdrive | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | Distortion Guitar | Dist.Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | Guitar Harmonics | GtrHarmo | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 33 | Acoustic Bass | Aco.Bass | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 34 | Electric Bass (finger) | FngrBass | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35 | Electric Bass (pick) | PickBass | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | Fretless Bass | Fretless | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 37 | Slap Bass 1 | SlapBas1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | Slap Bass 2 | SlapBas2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | Synth Bass 1 | SynBass1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | Synth Bass 2 | SynBass2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Strings | 41 | Violin | Violin | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 42 | Viola | Viola | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 43 | Cello | Cello | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 44 | Contrabass | Contrabs | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 45 | Tremolo Strings | Trem.Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 46 | Pizzicato Strings | Pizz.Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 47 | Orchestral Harp | Harp | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 48 | Timpani | Timpani | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ensemble | 49 | String Ensemble 1 | Strings1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | String Ensemble 2 | Strings2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 51 | Synth Strings 1 | Syn.Str1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 52 | Synth Strings 2 | Syn.Str2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | Choir Aahs | ChoirAah | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | Voice Oohs | VoiceOoh | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 55 | Synth Voice | SynVoice | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 56 | Orchestra Hit | Orch.Hit | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Brass | 57 | Trumpet | Trumpet | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 58 | Trombone | Trombone | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 59 | Tuba | Tuba | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | Muted Trumpet | Mute.Trp | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 61 | French Horn | Fr.Horn | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 62 | Brass Section 1 | BrasSect | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 63 | Synth Brass 1 | SynBrass1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 64 | Synth Brass 2 | SynBrass2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Reed | 65 | Soprano Sax | SopranoSax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 66 | Alto Sax | Alto Sax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 67 | Tenor Sax | TenorSax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 68 | Baritone Sax | Barit.Sax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 69 | Oboe | Oboe | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 70 | English Horn | Eng.Horn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 71 | Bassoon | Bassoon | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 72 | Clarinet | Clarinet | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pipe | 73 | Piccolo | Piccolo | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 74 | Flute | Flute | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 75 | Recorder | Recorder | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 76 | Pan Flute | PanFlute | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 77 | Blown Bottle | Bottle | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 78 | Shakuhachi | Shakuhchi | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 79 | Whistle | Whistle | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 80 | Ocarina | Ocarina | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Synth Lead | 81 | Lead 1 (square) | SquareLd | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 82 | Lead 2 (sawtooth) | | | | | | | | | | | | | | | | | | | | | | | | | | |

: Same as Bank 0

: No sound

E : Element number

XG Voice List / XG Voice-Liste / Liste des voix XG / Lista de sonidos XG

| Instrument Group | Pgm# | Bank 0 | | Release | | Rezo Sweep | | Muted | | Detune 1 | | Detune 2 | | Detune 3 | | Octave 1 | | Octave 2 | | 5th 1 | | 5th 2 | | Bend | | Tutti | | |
|----------------------|------|-------------------------|-----------|---------|----------|------------|---------|-------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|-------|---------|-------|---------|------|---------|-------|-----------|---|
| | | Bank Select LSB=00 | Bank | E | Bank 25 | E | Bank 27 | E | Bank 28 | E | Bank 32 | E | Bank 33 | E | Bank 34 | E | Bank 35 | E | Bank 36 | E | Bank 37 | E | Bank 38 | E | Bank 39 | E | Bank 40 | E |
| Piano | 1 | Acoustic Grand Piano | GrandPno | 2 | | | | | | | | | | | | | | | | | | | | | | | PianoStr | 2 |
| | 2 | Bright Acoustic Piano | BritePno | 2 | | | | | | | | | | | | | | | | | | | | | | | LayerCP1 | 2 |
| | 3 | Electric Grand Piano | El.Grand | 2 | | | | | | | | | | | | | | | | | | | | | | | HardEl.P | 2 |
| | 4 | Honky-tonk Piano | HinkyTonk | 2 | | | | | | | | | | | | | | | | | | | | | | | DX Phase | 2 |
| | 5 | Electric Piano 1 | E.Piano1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | Electric Piano 2 | E.Piano2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | Harpsichord | Harpsi. | 1 | Harpsi.2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | Clavi. | Clavi. | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromatic Percussion | 9 | Celesta | Celesta | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | Glockenspiel | Glocken | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | Music Box | MusicBox | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | Vibraphone | Vibes | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | Marimba | Marimba | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | Xylophone | Xylophon | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | Tubular Bells | TubulBel | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | Dulcimer | Dulcimer | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Organ | 17 | Drawbar Organ 1 | DrawOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | 16+2'2/3 | 2 |
| | 18 | Percussive Organ | PercOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | Rock Organ | RockOrgn | 2 | | | | | | | | | | | | | | | | | | | | | | | NotreDam | 2 |
| | 20 | Church Organ 1 | ChrchOrg | 2 | | | | | | | | | | | | | | | | | | | | | | | Puff Org | 2 |
| | 21 | Reed Organ | ReedOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | Accordion | Accordion | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | Hamonica | Hamnica | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | Tango Accordion | TangoAccd | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Guitar | 25 | Acoustic Guitar (nylon) | NylonGtr | 1 | NylonGt3 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | Acoustic Guitar (steel) | SteelGtr | 1 | | | | | | | | | | | | | | | | | | | | | | | Nyln&Stl | 2 |
| | 27 | Electric Guitar (jazz) | Jazz Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | Electric Guitar (clean) | CleanGtr | 1 | | | | | | | | | | | | | | | | | | | | | | | FunkGtr1 | 2 |
| | 29 | Electric Guitar (muted) | Mute.Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | FeedbkGt | 2 |
| | 30 | Overdriven Guitar | Ovdrive | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | Distortion Guitar | Dist.Gtr | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | Guitar Harmonics | GtrHarmo | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 33 | Acoustic Bass | Aco.Bass | 1 | | | | | | | | | | | | | | | | | | | | | | | JazzRithm | 2 |
| | 34 | Electric Bass (finger) | FngxBass | 1 | | | | | | | | | | | | | | | | | | | | | | | Ba&DstEG | 2 |
| | 35 | Electric Bass (pick) | PickBass | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | Fretless Bass | Fretless | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 37 | Slap Bass 1 | SlapBas1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 38 | Slap Bass 2 | SlapBas2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | Synth Bass 1 | SynBass1 | 1 | | | | | | | | | | | | | | | | | | | | | | | TechnoBa | 2 |
| | 40 | Synth Bass 2 | SynBass2 | 2 | | | | | | | | | | | | | | | | | | | | | | | ModulBa | 2 |
| Strings | 41 | Violin | Violin | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 42 | Viola | Viola | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 43 | Cello | Cello | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 44 | Contrabass | Contrabs | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 45 | Tremolo Strings | Trem.Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 46 | Pizzicato Strings | Pizz.Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 47 | Orchestral Harp | Harp | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 48 | Timpani | Timpani | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ensemble | 49 | String Ensemble 1 | Strings1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 | String Ensemble 2 | Strings2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 51 | Synth Strings 1 | Syn.Str1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 52 | Synth Strings 2 | Syn.Str2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | Choir Ahhs | ChoirAah | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | Voice Oohs | VoiceOoh | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 55 | Synth Voice | SynVoice | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 56 | Orchestra Hit | Orch.Hit | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Brass | 57 | Trumpet | Trumpet | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 58 | Trombone | Trombone | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 59 | Tuba | Tuba | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | Muted Trumpet | Mute.Trp | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 61 | French Horn | Ffr.Horn | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 62 | Brass Section 1 | BrasSect | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 63 | Synth Brass 1 | SynBrss1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 64 | Synth Brass 2 | SynBrss2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Reed | 65 | Soprano Sax | SoprnoSax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 66 | Alto Sax | Alto Sax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 67 | Tenor Sax | TenorSax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 68 | Baritone Sax | Barit.Sax | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 69 | Oboe | Oboe | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 70 | English Horn | Eng.Horn | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 71 | Bassoon | Bassoon | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 72 | Clarinet | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Instrument Group | Pgm# | Bank 0 | | Velo-Switch | | Velo-Xfade | | other wave | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------|-------------------------|------------|-------------|-----------|------------|----------|------------|----------|---|----------|---|---------|---|---------|---|------------|-----------|----------|----------|----------|---|----------|---|---------|---|---------|---|--|--|--|--|
| | | Bank Select LSB=00 | Bank 0 | E | Bank 41 | E | Bank 42 | E | Bank 43 | E | Bank 45 | E | Bank 64 | E | Bank 65 | E | Bank 66 | E | Bank 67 | E | Bank 68 | E | Bank 69 | E | Bank 70 | E | Bank 71 | E | | | | |
| Piano | 1 | Acoustic Grand Piano | GrandPno | 2 | Dream | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | Bright Acoustic Piano | BritePno | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | Electric Grand Piano | Ei.Grand | 2 | LayerCP2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | Fhonky-tonk Piano | HfckyTonk | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | Electric Piano 1 | E.Piano1 | 2 | | | | | VX_El.P1 | 2 | 60sEl.P1 | 1 | | | | | | | | | | | | | | | | | | | | |
| | 6 | Electric Piano 2 | E.Piano2 | 2 | DX+Analg | 2 | DXKotoEP | 2 | VX_El.P2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | Harpsichord | Harpsi | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | Clavi. | Clavi | 2 | | | | | | | | | | | | | PulseClv | 1 | PierceCl | 2 | | | | | | | | | | | | |
| Chromatic Percussion | 9 | Celesta | Celesta | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | Glockenspiel | Glocken | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | Music Box | MusicBox | 2 | | | | | | | | | | | | | | Orgel | 2 | | | | | | | | | | | | | |
| | 12 | Vibraphone | Vibes | 1 | | | | | | | | | | | | | HardVibe | 2 | | | | | | | | | | | | | | |
| | 13 | Mariimba | Mariimba | 1 | | | | | | | | | | | | | | SineMrrmb | 2 | | | | | | | | | | | | | |
| | 14 | Xylophone | Xylophon | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | Tubular Bells | TubulBel | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | Dulcimer | Dulcimer | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Organ | 17 | Drawbar Organ 1 | DrawOrgn | 1 | | | | | | | | | | | | | Organ Ba | 1 | 70sDrOr2 | 2 | CheezOrg | 2 | DrawOrg3 | 2 | | | | | | | | |
| | 18 | Percussive Organ | PercOrng | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | Rock Organ | RockOrgn | 2 | | | | | | | | | | | | | RotaryOr | 2 | StoRotar | 2 | FstRotar | 2 | | | | | | | | | | |
| | 20 | Church Organ 1 | ChvhOrg | 2 | | | | | | | | | | | | | OrgFlute | 2 | TrmOrgFl | 2 | | | | | | | | | | | | |
| | 21 | Reed Organ | ReedOrgn | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | Accordion | Accordin | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | Harmonica | Harmonica | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | Tape Accordion | TangoAccd | 2 | | | | | | | | | | | | | TrngoAccd2 | 2 | | | | | | | | | | | | | | |
| Guitar | 25 | Acoustic Guitar (nylon) | NylonGtr | 1 | | | | | | | | | | | | | VelGtHrm | 2 | | | | | | | | | | | | | | |
| | 26 | Acoustic Guitar (steel) | SteelGtr | 1 | Stl&Body | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | Electric Guitar (jazz) | Jazz_Gir | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | Electric Guitar (clean) | CleanGtr | 1 | | | | | | | | | | | | | FunkGtr2 | 2 | Jazz_Man | 1 | | | | | | | | | | | | |
| | 29 | Electric Guitar (muted) | Mute_Gtr | 1 | MuteStGt | 2 | | | | | | | | | | | Gt.Pinch | 2 | | | | | | | | | | | | | | |
| | 30 | Overdrive Guitar | Overdrive | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | Distortion Guitar | Dist_Gtr | 1 | FeedbkG2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | Guitar Harmonics | GtrHarmo | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 33 | Acoustic Bass | AcoBass | 1 | | | | | | | | | | | | | VXUprght | 2 | | | | | | | | | | | | | | |
| | 34 | Electric Bass (finger) | FngBass | 1 | | | | | | | | | | | | | FngSlap | 2 | FngBass2 | 2 | | | | | | | | | | | | |
| | 35 | Electric Bass (pick) | PickBass | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | Fretless Bass | Fretless | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 37 | Slap Bass 1 | SlapBas1 | 1 | | | | | | | | | | | | | VeloSlap | 2 | | | | | | | | | | | | | | |
| | 38 | Slap Bass 2 | SlapBas2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | Synth Bass 1 | SynBass1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | Synth Bass 2 | SynBass2 | 2 | DX Bass | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Strings | 41 | Violin | Violin | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 42 | Viola | Viola | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 43 | Cello | Cello | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 44 | ContraBass | Contrab | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 45 | Tremolo Strings | Trem.Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 46 | Pizzicato Strings | Pizz_Str | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 47 | Orchestral Harp | Harp | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 48 | Timpani | Timpani | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ensemble | 49 | String Ensemble 1 | String1 | 1 | Orchestr2 | 2 | TremOrch | 2 | | | | | | | | | Velo.Str | 2 | | | | | | | | | | | | | | |
| | 50 | String Ensemble 2 | String2 | 1 | Kingdom | 2 | | | | | | | | | | | | 70s Str | 1 | Strings3 | 1 | | | | | | | | | | | |
| | 51 | Synth Strings 1 | Syn.Str1 | 2 | | | | | | | | | | | | | | | Syn Str4 | 2 | Syn Str5 | 2 | | | | | | | | | | |
| | 52 | Synth Strings 2 | Syn.Str2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | Choir Aah | ChoirAah | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 54 | Voice Oohs | VoiceOoh | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 55 | Synth Voice | SynVoice | 1 | Choral | 2 | | | | | | | | | | | | | AnaVoice | 1 | | | | | | | | | | | | |
| | 56 | Orchestra Hit | Orch.Hit | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brass | 57 | Trumpet | Trumpet | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 58 | Trombone | Trombone | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 59 | Tuba | Tuba | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60 | Muted Trumpet | Mute_Trp | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 61 | French Horn | Fr.Horn | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 62 | Brass Section 1 | BrasSect | 1 | Hi Brass | 2 | MelloBrs | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 63 | Synth Brass 1 | SynBrss1 | 2 | | | | | | | | | | | | | | AnVelBr1 | 2 | AnaBrss1 | 2 | | | | | | | | | | | |
| | 64 | Synth Brass 2 | SynBrss2 | 1 | ChoirBrs | 2 | | | | | | | | | | | | AnVelBr2 | 2 | AnaBrss2 | 2 | | | | | | | | | | | |
| Reed | 65 | Soprano Sax | SopranoSax | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 66 | Alto Sax | Alto.Sax | 1 | | | | | | | | | | | | | | HyprAlto | 2 | | | | | | | | | | | | | |
| | 67 | Tenor Sax | TenorSax | 1 | SoftTenr | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 68 | Baritone Sax | Baro.Sax | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 69 | Oboe | Oboe | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 70 | English Horn | Eng.Horn | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 71 | Bassoon | Bassoon | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 72 | Clarinet | Clarinet | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pipe | 73 | Piccolo | Piccolo | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 74 | Flute | Flute | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 75 | Recorder | Recorder | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 76 | Pan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

: Same as Bank 0

: No sound

E : Element number

■ Bank Select MSB=64

| Instrument Group | Pgm# | Bank 0 | | | | | | | | | | | | | | | | |
|----------------------|------|-------------------------|-----------|---|---------|---|---------|---|---------|---|---------|---|---------|---|----------|---|----------|---|
| | | Bank Select LSB=00 | Bank 0 | E | Bank 72 | E | Bank 96 | E | Bank 97 | E | Bank 98 | E | Bank 99 | E | Bank 100 | E | Bank 101 | E |
| Piano | 1 | Acoustic Grand Piano | GrandPno | 2 | | | | | | | | | | | | | | |
| | 2 | Bright Acoustic Piano | BritePno | 2 | | | | | | | | | | | | | | |
| | 3 | Electric Grand Piano | El.Grand | 2 | | | | | | | | | | | | | | |
| | 4 | Honky-tonk Piano | HnkyTonk | 2 | | | | | | | | | | | | | | |
| | 5 | Electric Piano 1 | E.Piano1 | 2 | | | | | | | | | | | | | | |
| | 6 | Electric Piano 2 | E.Piano2 | 2 | | | | | | | | | | | | | | |
| | 7 | Harpsichord | Harpsi. | 1 | | | | | | | | | | | | | | |
| | 8 | Clavi. | Clavi. | 2 | | | | | | | | | | | | | | |
| Chromatic Percussion | 9 | Celesta | Celesta | 1 | | | | | | | | | | | | | | |
| | 10 | Glockenspiel | Glocken | 1 | | | | | | | | | | | | | | |
| | 11 | Music Box | MusicBox | 2 | | | | | | | | | | | | | | |
| | 12 | Vibraphone | Vibes | 1 | | | | | | | | | | | | | | |
| | 13 | Marimba | Marimba | 1 | | | | | | | | | | | | | | |
| | 14 | Xylophone | Xylophon | 1 | | | | | | | | | | | | | | |
| | 15 | Tubular Bells | TubulBel | 1 | | | | | | | | | | | | | | |
| | 16 | Dulcimer | Dulcimer | 1 | | | | | | | | | | | | | | |
| Organ | 17 | Drawbar Organ 1 | DrawOrgn | 1 | | | | | | | | | | | | | | |
| | 18 | Percussive Organ | PercOrgn | 1 | | | | | | | | | | | | | | |
| | 19 | Rock Organ | RockOrg | 2 | | | | | | | | | | | | | | |
| | 20 | Church Organ 1 | ChrchOrg | 2 | | | | | | | | | | | | | | |
| | 21 | Reed Organ | ReedOrgn | 1 | | | | | | | | | | | | | | |
| | 22 | Accordion | Accordin | 2 | | | | | | | | | | | | | | |
| | 23 | Harmonica | Harmonic | 1 | | | | | | | | | | | | | | |
| | 24 | Tango Accordion | TangoAcc | 2 | | | | | | | | | | | | | | |
| Guitar | 25 | Acoustic Guitar (nylon) | NylonGtr | 1 | | | | | | | | | | | | | | |
| | 26 | Acoustic Guitar (steel) | SteelGtr | 1 | | | | | | | | | | | | | | |
| | 27 | Electric Guitar (jazz) | Jazz Gtr | 1 | | | | | | | | | | | | | | |
| | 28 | Electric Guitar (clean) | CleanGtr | 1 | | | | | | | | | | | | | | |
| | 29 | Electric Guitar (muted) | Mute.Gtr | 1 | | | | | | | | | | | | | | |
| | 30 | Overdriven Guitar | Ovdrive | 1 | | | | | | | | | | | | | | |
| | 31 | Distortion Guitar | Dist.Gtr | 1 | | | | | | | | | | | | | | |
| | 32 | Guitar Harmonics | GtrHarmo | 1 | | | | | | | | | | | | | | |
| Bass | 33 | Acoustic Bass | Aco.Bass | 1 | | | | | | | | | | | | | | |
| | 34 | Electric Bass (finger) | FngrBass | 1 | | | | | | | | | | | | | | |
| | 35 | Electric Bass (pick) | PickBass | 1 | | | | | | | | | | | | | | |
| | 36 | Fretless Bass | Fretfess | 1 | | | | | | | | | | | | | | |
| | 37 | Slap Bass 1 | SlapBas1 | 1 | | | | | | | | | | | | | | |
| | 38 | Slap Bass 2 | SlapBas2 | 2 | | | | | | | | | | | | | | |
| | 39 | Synth Bass 1 | SynthBas1 | 1 | | | | | | | | | | | | | | |
| | 40 | Synth Bass 2 | SynthBas2 | 2 | | | | | | | | | | | | | | |
| Strings | 41 | Violin | Violin | 1 | | | | | | | | | | | | | | |
| | 42 | Viola | Viola | 1 | | | | | | | | | | | | | | |
| | 43 | Cello | Cello | 1 | | | | | | | | | | | | | | |
| | 44 | Contrabass | Contrabs | 1 | | | | | | | | | | | | | | |
| | 45 | Tremolo Strings | Trem.Str | 1 | | | | | | | | | | | | | | |
| | 46 | Pizzicato Strings | Pizz.St | 1 | | | | | | | | | | | | | | |
| | 47 | Orchestral Harp | Harp | 1 | | | | | | | | | | | | | | |
| | 48 | Timpani | Timpani | 1 | | | | | | | | | | | | | | |
| Ensemble | 49 | String Ensemble 1 | Strings1 | 1 | | | | | | | | | | | | | | |
| | 50 | String Ensemble 2 | Strings2 | 1 | | | | | | | | | | | | | | |
| | 51 | Synth Strings 1 | Syn.Str1 | 2 | | | | | | | | | | | | | | |
| | 52 | Synth Strings 2 | Syn.Str2 | 2 | | | | | | | | | | | | | | |
| | 53 | Choir Ahhs | ChoirAhh | 1 | | | | | | | | | | | | | | |
| | 54 | Voice Ohs | VoiceOoh | 1 | | | | | | | | | | | | | | |
| | 55 | Synth Voice | SynVoice | 1 | | | | | | | | | | | | | | |
| | 56 | Orchestra Hit | Orch.Hit | 2 | | | | | | | | | | | | | | |
| Brass | 57 | Trumpet | Trumpet | 1 | | | | | | | | | | | | | | |
| | 58 | Trombone | Trombone | 1 | | | | | | | | | | | | | | |
| | 59 | Tuba | Tuba | 1 | | | | | | | | | | | | | | |
| | 60 | Muted Trumpet | Mute.Trp | 1 | | | | | | | | | | | | | | |
| | 61 | French Horn | Fr.Horn | 2 | | | | | | | | | | | | | | |
| | 62 | Brass Section 1 | BrasSect | 1 | | | | | | | | | | | | | | |
| | 63 | Synth Brass 1 | SynthStr1 | 2 | | | | | | | | | | | | | | |
| | 64 | Synth Brass 2 | SynthStr2 | 1 | | | | | | | | | | | | | | |
| Reed | 65 | Soprano Sax | SoprnoSax | 1 | | | | | | | | | | | | | | |
| | 66 | Alto Sax | Alto Sax | 1 | | | | | | | | | | | | | | |
| | 67 | Tenor Sax | TenorSax | 1 | | | | | | | | | | | | | | |
| | 68 | Baritone Sax | Barit.Sax | 1 | | | | | | | | | | | | | | |
| | 69 | Oboe | Oboe | 2 | | | | | | | | | | | | | | |
| | 70 | English Horn | Eng.Horn | 1 | | | | | | | | | | | | | | |
| | 71 | Bassoon | Bassoon | 1 | | | | | | | | | | | | | | |
| | 72 | Clarinet | Clarinet | 1 | | | | | | | | | | | | | | |
| Pipe | 73 | Piccolo | Piccolo | 1 | | | | | | | | | | | | | | |
| | 74 | Flute | Flute | 1 | | | | | | | | | | | | | | |
| | 75 | Recorder | Recorder | 1 | | | | | | | | | | | | | | |
| | 76 | Pan Flute | PanFlute | 1 | | | | | | | | | | | | | | |
| | 77 | Blown Bottle | Bottle | 2 | | | | | | | | | | | | | | |
| | 78 | Shakuhachi | Shakuchi | 2 | | | | | | | | | | | | | | |
| | 79 | Whistle | Whistle | 1 | | | | | | | | | | | | | | |
| | 80 | Ocarina | Ocarina | 1 | | | | | | | | | | | | | | |
| Synth Lead | 81 | Lead 1 (square) | SquareLd | 2 | | | | | | | | | | | | | | |
| | 82 | Lead 2 (sawtooth) | Saw Ld | 2 | | | | | | | | | | | | | | |
| | 83 | Lead 3 (calliope) | CalioLd | 2 | | | | | | | | | | | | | | |
| | 84 | Lead 4 (chiff) | Chiff Ld | 2 | | | | | | | | | | | | | | |
| | 85 | Lead 5 (charang) | CharanLd | 2 | | | | | | | | | | | | | | |
| | 86 | Lead 6 (voice) | Voice Ld | 2 | | | | | | | | | | | | | | |
| | 87 | Lead 7 (fifths) | Fifth Ld | 2 | | | | | | | | | | | | | | |
| | 88 | Lead 8 (bass+lead) | Bass&Ld | 2 | | | | | | | | | | | | | | |
| Synth Pad | 89 | Pad 1 (new age) | NewAgePd | 2 | | | | | | | | | | | | | | |
| | 90 | Pad 2 (warm) | Warm Pad | 2 | | | | | | | | | | | | | | |
| | 91 | Pad 3 (polysynth) | PolySyPd | 2 | | | | | | | | | | | | | | |
| | 92 | Pad 4 (choir) | ChoirPad | 2 | | | | | | | | | | | | | | |
| | 93 | Pad 5 (bowed) | BowedPad | 2 | | | | | | | | | | | | | | |
| | 94 | Pad 6 (metallic) | MetalPad | 2 | | | | | | | | | | | | | | |
| | 95 | Pad 7 (halo) | Haloo Pad | 2 | | | | | | | | | | | | | | |
| | 96 | Pad 8 (sweep) | SweepPad | 2 | | | | | | | | | | | | | | |
| Synth Effects | 97 | FX 1 (rain) | Rain | 2 | | | | | | | | | | | | | | |
| | 98 | FX 2 (soundtrack) | SoundTrk | 2 | | | | | | | | | | | | | | |
| | 99 | FX 3 (crystal) | Crystal | 2 | | | | | | | | | | | | | | |
| | 100 | FX 4 (atmosphere) | Atmosphr | 2 | | | | | | | | | | | | | | |
| | 101 | FX 5 (brightness) | Bright | 2 | | | | | | | | | | | | | | |
| | 102 | FX 6 (goblins) | Goblins | 2 | | | | | | | | | | | | | | |
| | 103 | FX 7 (echoes) | Echoes | 2 | | | | | | | | | | | | | | |
| | 104 | FX 8 (sci-fi) | Sci-Fi | 2 | | | | | | | | | | | | | | |
| Ethnic | 105 | Sitar | Sitar | 1 | | | | | | | | | | | | | | |
| | 106 | Banjo | Banjo | 1 | </ | | | | | | | | | | | | | |

XG Drum Kit List

Liste der Drum Kits (Schlagzeug-Sets)

Liste des kits de percussion XG

- Key Off: Keys marked "O" stop sounding the instant they are released.
- Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number

 Same as Standard Kit
 No Sound

| Bank Select MSB (0-127) | | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
|-------------------------|------|---------|-----------------|-----------------|-----------------------|--------------------|----------------------|------------------------|
| Bank Select LSB (0-127) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Program Change (0-127) | | 0 | 1 | 8 | 16 | 24 | 25 | 27 |
| MIDI Note# | Note | Key Off | Alternate Group | Standard Kit1 | Standard Kit2 | Room Kit | Rock Kit | Electro Kit |
| 13 | C#1 | | 3 | Surdo Mute | | | | |
| 14 | D-1 | | 3 | Surdo Open | | | | |
| 15 | D#-1 | | | Hi Q | | | | |
| 16 | E-1 | | | Whip Slap | | | | |
| 17 | F-1 | | 4 | Scratch H | | | | |
| 18 | F#-1 | | 4 | Scratch L | | | | |
| 19 | G-1 | | | Finger Snap | | | | |
| 20 | G#-1 | | | Click Noise | | | | |
| 21 | A-1 | | | Metronome Click | | | | |
| 22 | A#-1 | | | Metronome Bell | | | | |
| 23 | B-1 | | | Seq Click L | | | | |
| 24 | C0 | | | Seq Click H | | | | |
| 25 | C#0 | | | Brush Tap | | | | |
| 26 | D0 | O | | Brush Swirl | | | | |
| 27 | D#0 | | | Brush Slap | | | | |
| 28 | E0 | O | | Brush Tap Swirl | | | Reverse Cymbal | Reverse Cymbal |
| 29 | F0 | O | | Snare Roll | | | | |
| 30 | F#0 | | | Castanet | | | Hi Q 2 | Hi Q 2 |
| 31 | G0 | | | Snare Soft | Snare Soft 2 | Snare Noisy | Snare Snappy Electro | Snare Noisy 4 |
| 32 | G#0 | | | Sticks | | | | |
| 33 | A0 | | | Kick Soft | | Kick 3 | Kick 3 | Kick Techno Q |
| 34 | A#0 | | | Open Rim Shot | Open Rim Shot H Short | | | Rim Gate |
| 35 | B0 | | | Kick Tight | | Kick 2 | Kick Gate | Kick Analog Short |
| 36 | C1 | | | Kick | | Kick Gate | Kick Gate Heavy | Kick Analog |
| 37 | C#1 | | | Side Stick | Side Stick Light | | | Side Stick Analog |
| 38 | D1 | | | Snare | Snare Short | Snare Snappy | Snare Rock | Snare Noisy 2 |
| 39 | D#1 | | | Hand Clap | | | | Snare Analog |
| 40 | E1 | | | Snare Tight | Snare Tight H | Snare Tight Snappy | Snare Rock Tight | Snare Noisy 3 |
| 41 | F1 | | | Floor Tom L | | Tom Room 1 | Tom Rock 1 | Tom Electro 1 |
| 42 | F#1 | 1 | | Hi-Hat Closed | | | | Hi-Hat Closed Analog |
| 43 | G1 | | | Floor Tom H | | Tom Room 2 | Tom Rock 2 | Tom Electro 2 |
| 44 | G#1 | 1 | | Hi-Hat Pedal | | | | Hi-Hat Closed Analog 2 |
| 45 | A1 | | | Low Tom | | Tom Room 3 | Tom Rock 3 | Tom Electro 3 |
| 46 | A#1 | 1 | | Hi-Hat Open | | | | Tom Analog 3 |
| 47 | B1 | | | Mid Tom L | | Tom Room 4 | Tom Rock 4 | Tom Electro 4 |
| 48 | C2 | | | Mid Tom H | | Tom Room 5 | Tom Rock 5 | Tom Electro 5 |
| 49 | C#2 | | | Crash Cymbal 1 | | | | Tom Analog 5 |
| 50 | D2 | | | High Tom | | Tom Room 6 | Tom Rock 6 | Tom Electro 6 |
| 51 | D#2 | | | Ride Cymbal 1 | | | | Tom Analog 6 |
| 52 | E2 | | | Chinese Cymbal | | | | |
| 53 | F2 | | | Ride Cymbal Cup | | | | |
| 54 | F#2 | | | Tambourine | | | | |
| 55 | G2 | | | Splash Cymbal | | | | |
| 56 | G#2 | | | Cowbell | | | | Cowbell Analog |
| 57 | A2 | | | Crash Cymbal 2 | | | | Cowbell Analog |
| 58 | A#2 | | | Vibraslap | | | | |
| 59 | B2 | | | Ride Cymbal 2 | | | | |
| 60 | C3 | | | Bongo H | | | | |
| 61 | C#3 | | | Bongo L | | | | |
| 62 | D3 | | | Conga H Mute | | | | Conga Analog H |
| 63 | D#3 | | | Conga H Open | | | | Conga Analog M |
| 64 | E3 | | | Conga L | | | | Conga Analog L |
| 65 | F3 | | | Timbale H | | | | |
| 66 | F#3 | | | Timbale L | | | | |
| 67 | G3 | | | Agogo H | | | | |
| 68 | G#3 | | | Agogo L | | | | |
| 69 | A3 | | | Cabasa | | | | |
| 70 | A#3 | | | Maracas | | | | Maracas 2 |
| 71 | B3 | O | | Samba Whistle H | | | | Maracas 2 |
| 72 | C4 | O | | Samba Whistle L | | | | |
| 73 | C#4 | | | Guiro Short | | | | |
| 74 | D4 | O | | Guiro Long | | | | |
| 75 | D#4 | | | Claves | | | | Claves 2 |
| 76 | E4 | | | Wood Block H | | | | Claves 2 |
| 77 | F4 | | | Wood Block L | | | | |
| 78 | F#4 | | | Cuica Mute | | Scratch H 2 | Scratch H 2 | Scratch H 2 |
| 79 | G4 | | | Cuica Open | | Scratch L 2 | Scratch L 2 | Scratch L 2 |
| 80 | G#4 | 2 | | Triangle Mute | | | | |
| 81 | A4 | 2 | | Triangle Open | | | | |
| 82 | A#4 | | | Shaker | | | | |
| 83 | B4 | | | Jingle Bells | | | | |
| 84 | C5 | | | Bell Tree | | | | |
| 85 | C#5 | | | | | | | |
| 86 | D5 | | | | | | | |
| 87 | D#5 | | | | | | | |
| 88 | E5 | | | | | | | |
| 89 | F5 | | | | | | | |
| 90 | F#5 | | | | | | | |
| 91 | G5 | | | | | | | |

| Bank Select MSB (0-127) | | | 127 | 127 | 127 | 126 | 126 | | | | | |
|-------------------------|---------|-----------------|------------------|---------------------|---------------------|-----------------|---------------------|--|----------|--|----------|--|
| Bank Select LSB (0-127) | | | 0 | 0 | 0 | 0 | 0 | | | | | |
| Program Change (0-127) | | | 32 | 40 | 48 | 0 | 1 | | | | | |
| MIDI Note# | Key Off | Alternate Group | Jazz Kit | | Brush Kit | | Symphony Kit | | SFX Kit1 | | SFX Kit2 | |
| Note# | | | | | | | | | | | | |
| 13 | C#-1 | | 3 | | | | | | | | | |
| 14 | D-1 | | 3 | | | | | | | | | |
| 15 | D#-1 | | | | | | | | | | | |
| 16 | E-1 | | | | | | | | | | | |
| 17 | F-1 | | 4 | | | | | | | | | |
| 18 | F#-1 | | 4 | | | | | | | | | |
| 19 | G-1 | | | | | | | | | | | |
| 20 | G#-1 | | | | | | | | | | | |
| 21 | A-1 | | | | | | | | | | | |
| 22 | A#-1 | | | | | | | | | | | |
| 23 | B-1 | | | | | | | | | | | |
| 24 | C0 | | | | | | | | | | | |
| 25 | C#0 | | | | | | | | | | | |
| 26 | D0 | O | | | | | | | | | | |
| 27 | D#0 | | | | | | | | | | | |
| 28 | E0 | O | | | | | | | | | | |
| 29 | F0 | O | | | | | | | | | | |
| 30 | F#0 | | | | | | | | | | | |
| 31 | G0 | | Snare Jazz H | Brush Slap 2 | | | | | | | | |
| 32 | G#0 | | | | | | | | | | | |
| 33 | A0 | | | | Kick Soft 2 | | | | | | | |
| 34 | A#0 | | | Open Rim Shot Light | | | | | | | | |
| 35 | B0 | | | | Gran Cassa | | | | | | | |
| 36 | C1 | | Kick Jazz | Kick Jazz | Gran Cassa Mute | Cutting Noise | Phone Call | | | | | |
| 37 | C#1 | | Side Stick Light | Side Stick Light | | Cutting Noise 2 | Door Squeak | | | | | |
| 38 | D1 | | Snare Jazz L | Brush Slap 3 | Band Snare | | Door Slam | | | | | |
| 39 | D#1 | | | | | String Slap | Scratch Cut | | | | | |
| 40 | E1 | | Snare Jazz M | Brush Tap 2 | Band Snare 2 | | Scratch H 3 | | | | | |
| 41 | F1 | | | Tom Brush 1 | | | Wind Chime | | | | | |
| 42 | F#1 | 1 | | | | | Telephone Ring 2 | | | | | |
| 43 | G1 | | | Tom Brush 2 | | | | | | | | |
| 44 | G#1 | 1 | | | | | | | | | | |
| 45 | A1 | | | Tom Brush 3 | | | | | | | | |
| 46 | A#1 | 1 | | | | | | | | | | |
| 47 | B1 | | | Tom Brush 4 | | | | | | | | |
| 48 | C2 | | | Tom Brush 5 | | | | | | | | |
| 49 | C#2 | | | | Hand Cymbal | | | | | | | |
| 50 | D2 | | | Tom Brush 6 | | | | | | | | |
| 51 | D#2 | | | | Hand Cymbal Short | | | | | | | |
| 52 | E2 | | | | | Flute Key Click | Car Engine Ignition | | | | | |
| 53 | F2 | | | | | | Car Tires Squeal | | | | | |
| 54 | F#2 | | | | | | Car Passing | | | | | |
| 55 | G2 | | | | | | Car Crash | | | | | |
| 56 | G#2 | | | | | | Siren | | | | | |
| 57 | A2 | | | | Hand Cymbal 2 | | Train | | | | | |
| 58 | A#2 | | | | | | Jet Plane | | | | | |
| 59 | B2 | | | | Hand Cymbal 2 Short | | Starship | | | | | |
| 60 | C3 | | | | | | Burst | | | | | |
| 61 | C#3 | | | | | | Roller Coaster | | | | | |
| 62 | D3 | | | | | | Submarine | | | | | |
| 63 | D#3 | | | | | | | | | | | |
| 64 | E3 | | | | | | | | | | | |
| 65 | F3 | | | | | | | | | | | |
| 66 | F#3 | | | | | | | | | | | |
| 67 | G3 | | | | | | | | | | | |
| 68 | G#3 | | | | | | | | | | | |
| 69 | A3 | | | | | | | | | | | |
| 70 | A#3 | | | | | | | | | | | |
| 71 | B3 | O | | | | | | | | | | |
| 72 | C4 | O | | | | | | | | | | |
| 73 | C#4 | | | | | | | | | | | |
| 74 | D4 | O | | | | | | | | | | |
| 75 | D#4 | | | | | | | | | | | |
| 76 | E4 | | | | | | | | | | | |
| 77 | F4 | | | | | | | | | | | |
| 78 | F#4 | | | | | | | | | | | |
| 79 | G4 | | | | | | | | | | | |
| 80 | G#4 | 2 | | | | | | | | | | |
| 81 | A4 | 2 | | | | | | | | | | |
| 82 | A#4 | | | | | | | | | | | |
| 83 | B4 | | | | | | | | | | | |
| 84 | C5 | | | | | Dog | Machine Gun | | | | | |
| 85 | C#5 | | | | | Horse | Laser Gun | | | | | |
| 86 | D5 | | | | | Bird Tweet 2 | Explosion | | | | | |
| 87 | D#5 | | | | | | Firework | | | | | |
| 88 | E5 | | | | | | | | | | | |
| 89 | F5 | | | | | | | | | | | |
| 90 | F#5 | | | | | Ghost | | | | | | |
| 91 | G5 | | | | | Maou | | | | | | |

XG Effect Type List

Liste der XG-Effekttypen

Liste des types d'effets XG

Lista de tipos de efectos XG

■ Reverb Block

Reverb types that can be selected by [VOICE SETTING]

| Effect Name | MSB | LSB |
|-------------|-----|-----|
| Hall1 | 1 | 0 |
| Hall2 | 1 | 17 |
| Room | 2 | 17 |
| Stage | 3 | 17 |
| Plate | 4 | 16 |

All reverb types

| XG Effect Name | MSB | LSB |
|----------------|-----|-----|
| HALL1 | 1 | 0 |
| HALL2 | 1 | 1 |
| LARGE HALL | 1 | 2 |
| MEDIUM HALL | 1 | 3 |
| HALL M | 1 | 6 |
| HALL L | 1 | 7 |
| (HALL) | 1 | 16 |
| (HALL) | 1 | 17 |
| (HALL) | 1 | 18 |
| ROOM1 | 2 | 0 |
| ROOM2 | 2 | 1 |
| ROOM3 | 2 | 2 |
| WARM ROOM | 2 | 3 |
| WOODY ROOM | 2 | 4 |
| ROOM S | 2 | 5 |
| ROOM M | 2 | 6 |
| ROOM L | 2 | 7 |
| (ROOM) | 2 | 16 |
| (ROOM) | 2 | 17 |
| (ROOM) | 2 | 18 |
| (ROOM) | 2 | 19 |
| STAGE1 | 3 | 0 |
| STAGE2 | 3 | 1 |
| (STAGE) | 3 | 16 |
| (STAGE) | 3 | 17 |
| PLATE | 4 | 0 |
| RICH PLATE | 4 | 1 |
| GM PLATE | 4 | 7 |
| (PLATE) | 4 | 16 |
| (PLATE) | 4 | 17 |
| WHITE ROOM | 16 | 0 |
| TUNNEL | 17 | 0 |
| CANYON | 18 | 0 |
| BASEMENT | 19 | 0 |
| NO EFFECT | 0 | 0 |

■ Chorus Block

Chorus types that can be selected by [VOICE SETTING]

| Effect Name | MSB | LSB |
|-------------|-----|-----|
| Chorus | 65 | 8 |
| Celeste | 66 | 8 |
| Flanger | 67 | 1 |

All chorus types

| XG Effect Name | MSB | LSB |
|----------------|-----|-----|
| CHORUS1 | 65 | 0 |
| CHORUS2 | 65 | 1 |
| CHORUS3 | 65 | 2 |
| GM CHORUS1 | 65 | 3 |
| GM CHORUS2 | 65 | 4 |
| GM CHORUS3 | 65 | 5 |
| GM CHORUS4 | 65 | 6 |
| FB CHORUS | 65 | 7 |
| CHORUS4 | 65 | 8 |
| CELESTE1 | 66 | 0 |
| CELESTE2 | 66 | 1 |
| CELESTE3 | 66 | 2 |
| CELESTE4 | 66 | 8 |
| (CELESTE) | 66 | 16 |
| (CELESTE) | 66 | 17 |
| (CELESTE) | 66 | 18 |
| FLANGER1 | 67 | 0 |
| FLANGER2 | 67 | 1 |
| GM FLANGER | 67 | 7 |
| FLANGER3 | 67 | 8 |
| (FLANGER) | 67 | 16 |
| (FLANGER) | 67 | 17 |
| SYMPHONIC | 68 | 0 |
| (SYMPHONIC) | 68 | 16 |
| PHASER1 | 72 | 0 |
| (PHASER) | 72 | 16 |
| (PHASER) | 72 | 17 |
| (PHASER) | 72 | 18 |
| ENS DETUNE | 87 | 0 |
| NO EFFECT | 0 | 0 |

■ Variation/Insertion Block

Variation/insertion effects that can be selected by [VOICE SETTING]

| Effect Name | MSB | LSB |
|-------------|-----|-----|
| DelayLCR | 5 | 16 |
| DelayLR | 6 | 0 |
| Echo | 7 | 0 |
| CrossDelay | 8 | 0 |
| Symphonic | 68 | 16 |
| Rotary | 66 | 18 |
| Tremolo | 70 | 18 |
| VibeRotor | 119 | 0 |
| AutoPan | 71 | 21 |
| Phaser | 72 | 17 |
| AutoWah | 78 | 16 |
| SoundBoard | 3 | 0 |

All variation/insertion effects

| XG Effect Name | Variation block | Insertion block | MSB | LSB |
|----------------|-----------------|-----------------|-----|-----|
| HALL1 | ● | ● | 1 | 0 |
| HALL2 | ● | ● | 1 | 1 |
| HALL M | ● | ● | 1 | 6 |
| HALL L | ● | ● | 1 | 7 |
| (HALL) | ● | ● | 1 | 16 |
| (HALL) | ● | ● | 1 | 17 |
| (HALL) | ● | ● | 1 | 18 |
| ROOM1 | ● | ● | 2 | 0 |
| ROOM2 | ● | ● | 2 | 1 |
| ROOM3 | ● | ● | 2 | 2 |
| ROOM S | ● | ● | 2 | 5 |
| ROOM M | ● | ● | 2 | 6 |
| ROOM L | ● | ● | 2 | 7 |
| (ROOM) | ● | ● | 2 | 16 |
| (ROOM) | ● | ● | 2 | 17 |
| (ROOM) | ● | ● | 2 | 18 |
| (ROOM) | ● | ● | 2 | 19 |
| STAGE1 | ● | ● | 3 | 0 |
| STAGE2 | ● | ● | 3 | 1 |
| (STAGE) | ● | ● | 3 | 16 |
| (STAGE) | ● | ● | 3 | 17 |
| PLATE | ● | ● | 4 | 0 |
| GM PLATE | ● | ● | 4 | 7 |
| (PLATE) | ● | ● | 4 | 16 |
| (PLATE) | ● | ● | 4 | 17 |
| DELAY LCR | ● | ● | 5 | 0 |
| (DELAY LCR) | ● | ● | 5 | 16 |
| DELAY LR | ● | ● | 6 | 0 |
| ECHO | ● | ● | 7 | 0 |
| CROSS DELAY | ● | ● | 8 | 0 |
| ER1 | ● | | 9 | 0 |
| ER2 | ● | | 9 | 1 |
| GATE REVERB | ● | | 10 | 0 |
| REVERS GATE | ● | | 11 | 0 |
| WHITE ROOM | ● | | 16 | 0 |
| TUNNEL | ● | | 17 | 0 |
| CANYON | ● | | 18 | 0 |
| BASEMENT | ● | | 19 | 0 |
| KARAOKE1 | ● | ● | 20 | 0 |
| KARAOKE2 | ● | ● | 20 | 1 |
| KARAOKE3 | ● | ● | 20 | 2 |
| TEMPO DELAY | ● | ● | 21 | 0 |
| TEMPO ECHO | ● | ● | 21 | 8 |

| XG Effect Name | Variation block | Insertion block | MSB | LSB |
|----------------|-----------------|-----------------|-----|-----|
| TEMPO CROSS | ● | ● | 22 | 0 |
| CHORUS1 | ● | ● | 65 | 0 |
| CHORUS2 | ● | ● | 65 | 1 |
| CHORUS3 | ● | ● | 65 | 2 |
| GM CHORUS1 | ● | ● | 65 | 3 |
| GM CHORUS2 | ● | ● | 65 | 4 |
| GM CHORUS3 | ● | ● | 65 | 5 |
| GM CHORUS4 | ● | ● | 65 | 6 |
| FB CHORUS | ● | ● | 65 | 7 |
| CHORUS4 | ● | ● | 65 | 8 |
| CELESTE1 | ● | ● | 66 | 0 |
| CELESTE2 | ● | ● | 66 | 1 |
| CELESTE3 | ● | ● | 66 | 2 |
| CELESTE4 | ● | ● | 66 | 8 |
| (CELESTE) | ● | ● | 66 | 16 |
| (CELESTE) | ● | ● | 66 | 17 |
| (CELESTE) | ● | ● | 66 | 18 |
| FLANGER1 | ● | ● | 67 | 0 |
| FLANGER2 | ● | ● | 67 | 1 |
| GM FLANGER | ● | ● | 67 | 7 |
| FLANGER3 | ● | ● | 67 | 8 |
| (FLANGER) | ● | ● | 67 | 16 |
| (FLANGER) | ● | ● | 67 | 17 |
| SYMPHONIC | ● | ● | 68 | 0 |
| (SYMPHONIC) | ● | ● | 68 | 16 |
| ROTARY SP | ● | ● | 69 | 0 |
| DST+ROT SP | ● | | 69 | 1 |
| OD+ROT SP | ● | | 69 | 2 |
| AMP+ROT SP | ● | | 69 | 3 |
| (ROTARY SP) | ● | ● | 69 | 16 |
| TREMOLO | ● | ● | 70 | 0 |
| (TREMOLO) | ● | ● | 70 | 16 |
| (TREMOLO) | ● | ● | 70 | 17 |
| (TREMOLO) | ● | ● | 70 | 18 |
| (TREMOLO) | ● | ● | 70 | 19 |
| AUTO PAN1 | ● | ● | 71 | 0 |
| AUTO PAN2 | ● | | 71 | 1 |
| (AUTO PAN) | ● | ● | 71 | 16 |
| (AUTO PAN) | ● | ● | 71 | 17 |
| (AUTO PAN) | ● | ● | 71 | 18 |
| (AUTO PAN) | ● | ● | 71 | 19 |
| (AUTO PAN) | ● | ● | 71 | 20 |
| (AUTO PAN) | ● | ● | 71 | 21 |
| (AUTO PAN) | ● | ● | 71 | 22 |
| PHASER1 | ● | ● | 72 | 0 |
| PHASER2 | ● | | 72 | 8 |
| (PHASER) | ● | ● | 72 | 16 |
| (PHASER) | ● | ● | 72 | 17 |
| (PHASER) | ● | ● | 72 | 18 |
| DISTORTION | ● | ● | 73 | 0 |
| COMP+DIST | ● | | 73 | 1 |
| STEREO DIST | ● | | 73 | 8 |
| (COMP+DIST) | ● | | 73 | 16 |
| OVERDRIVE | ● | ● | 74 | 0 |
| STEREO OD | ● | | 74 | 8 |
| AMP SIM1 | ● | ● | 75 | 0 |
| AMP SIM2 | ● | | 75 | 1 |
| STEREO AMP | ● | | 75 | 8 |
| (AMP SIM) | ● | ● | 75 | 16 |
| (AMP SIM) | ● | ● | 75 | 17 |

| XG Effect Name | Variation block | Insertion block | MSB | LSB |
|----------------|-----------------|-----------------|-----|-----|
| (AMP SIM) | ● | | 75 | 18 |
| (AMP SIM) | ● | | 75 | 19 |
| (AMP SIM) | ● | | 75 | 20 |
| (AMP SIM) | ● | ● | 75 | 21 |
| (AMP SIM) | ● | ● | 75 | 22 |
| (AMP SIM) | ● | ● | 75 | 23 |
| 3BAND EQ | ● | ● | 76 | 0 |
| (3BAND EQ) | ● | ● | 76 | 16 |
| (3BAND EQ) | ● | ● | 76 | 17 |
| (3BAND EQ) | ● | ● | 76 | 18 |
| 2BAND EQ | ● | ● | 77 | 0 |
| AUTO WAH | ● | ● | 78 | 0 |
| AT WAH+DST | ● | | 78 | 1 |
| AT WAH+OD | ● | | 78 | 2 |
| (AUTO WAH) | ● | ● | 78 | 16 |
| (AT WAH+DST) | ● | | 78 | 17 |
| (AT WAH+OD) | ● | | 78 | 18 |
| PITCH CHG | ● | | 80 | 0 |
| PITCH CHG2 | ● | | 80 | 1 |
| (PITCH CHG) | ● | | 80 | 16 |
| HM ENHANCE | ● | ● | 81 | 0 |
| (HM ENHANCE) | ● | ● | 81 | 16 |
| TOUCH WAH | ● | ● | 82 | 0 |
| TC WAH+DST | ● | | 82 | 1 |
| TC WAH+OD | ● | | 82 | 2 |
| TOUCH WAH2 | ● | ● | 82 | 8 |
| (TC WAH+DST) | ● | | 82 | 16 |
| (TC WAH+OD) | ● | | 82 | 17 |
| (TOUCH WAH2) | ● | ● | 82 | 18 |
| (TOUCH WAH) | ● | ● | 82 | 19 |
| COMPRESSOR | ● | ● | 83 | 0 |
| NOISE GATE | ● | ● | 84 | 0 |
| VCE CANCEL | ● | | 85 | 0 |
| 2WAY ROT SP | ● | | 86 | 0 |
| DST+2ROT SP | ● | | 86 | 1 |
| OD+2ROT SP | ● | | 86 | 2 |
| AMP+2ROT SP | ● | | 86 | 3 |
| ENS DETUNE | ● | ● | 87 | 0 |
| AMBIENCE | ● | | 88 | 0 |
| TALKING MOD | ● | | 93 | 0 |
| LO-FI | ● | | 94 | 0 |
| DST+DELAY | ● | | 95 | 0 |
| OD+DELAY | ● | | 95 | 1 |
| (DST+DELAY) | ● | | 95 | 16 |
| (OD+DELAY) | ● | | 95 | 17 |
| CMP+DST+DLY | ● | | 96 | 0 |
| CMP+OD+DLY | ● | | 96 | 1 |
| (CMP+DST+DLY) | ● | | 96 | 16 |
| (CMP+OD+DLY) | ● | | 96 | 17 |
| WH+DST+DLY | ● | | 97 | 0 |
| WH+OD+DLY | ● | | 97 | 1 |
| (WH+DST+DLY) | ● | | 97 | 16 |
| (WH+OD+DLY) | ● | | 97 | 17 |
| V_DIST HARD | ● | | 98 | 0 |
| V_DIST H+DLY | ● | | 98 | 1 |
| V_DIST SOFT | ● | | 98 | 2 |
| V_DIST S+DLY | ● | | 98 | 3 |
| DUAL ROT SP1 | ● | | 99 | 0 |
| DUAL ROT SP2 | ● | | 99 | 1 |
| DST+TDLY | ● | | 100 | 0 |

| XG Effect Name | Variation block | Insertion block | MSB | LSB |
|----------------|-----------------|-----------------|-----|-----|
| OD+TDLY | ● | | 100 | 1 |
| CMP+DST+TDL | ● | | 101 | 0 |
| CMP+OD+TDLY | ● | | 101 | 1 |
| WH+DST+TDLY | ● | | 102 | 0 |
| WH+OD+TDLY | ● | | 102 | 1 |
| V_DST H+TDLY | ● | | 103 | 0 |
| V_DST S+TDLY | ● | | 103 | 1 |
| V_FLANGER | ● | | 104 | 0 |
| MBAND COMP | ● | | 105 | 0 |
| T_FLANGER | ● | | 107 | 0 |
| T_PHASE | ● | | 108 | 0 |
| DYN FILTER | ● | | 109 | 0 |
| DYN FLANGER | ● | | 110 | 0 |
| DYN PHASER | ● | | 111 | 0 |
| DYN RINGMOD | ● | | 112 | 0 |
| RING MOD | ● | | 113 | 0 |
| ISOLATOR | ● | | 115 | 0 |
| VIBE VIBRATE | ● | ● | 119 | 0 |
| NO EFFECT | ● | | 0 | 0 |
| THRU | ● | ● | 64 | 0 |

Effect Parameter List

Liste der Effektparameter

Liste des paramètres d'effets

Lista de parámetros de efectos

Parameters marked with a ● in the “Control” column can be controlled from an AC1 (assignable controller 1) etc. However, these only affect insertion type effects.

Only the effect names which appear in the display are described above each chart. For details on effects which are not displayed but can be selected by using MSB/LSB numbers, refer to the XG Effect Type List on page 11.

Panel Effect Name

| | |
|------------------------|----------------------------------------|
| Reverb block | MSB = 01 |
| Hall1, Hall2 | LSB = 0, 1, 6, 7, 16, 17, 18 |
| Room | MSB = 02 |
| Stage | LSB = 0, 1, 2, 5, 6, 7, 16, 17, 18, 19 |
| Plate | MSB = 03 |
| Insertion block | MSB = 04 |
| Sound Board | LSB = 0, 7, 16, 17 |

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------|------------------------------------------------|----------------|------------|---------|
| 1 | Reverb Time | 0.3 – 30.0s | 0 – 69 | table#4 | |
| 2 | Diffusion | 0 – 10 | 0 – 10 | | |
| 3 | Initial Delay | 0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2, 3) | 0 – 127 | table#5 | |
| 4 | HPF Cutoff | Thru – 8.0kHz | 0 – 63 | table#3 | |
| 5 | LPF Cutoff | 1.0kHz – Thru | 0 – 52 | table#3 | |
| 6 | | | 34 – 60 | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Rev Delay | 0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2, 3) | 0 – 127 | table#5 | |
| 12 | Density | 0 – 4 (*1, 2) 0 – 2 (*3) | 0 – 4 0 – 2 | | |
| 13 | Er/Rev Balance | E63>R – E=R – E<R63 | 1 – 127 | | |
| 14 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 15 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 16 | | | | | |

MSB = 01, LSB = 2, 3
MSB = 02, LSB = 3, 4
MSB = 04, LSB = 1

| No. | Parameter | Display | Value | See Table | Control |
|-----|---------------|---------------------|---------|------------|---------|
| 1 | Reverb Time | 0.3 – 30.0s | 0 – 69 | table#4 | |
| 2 | Diffusion | 0 – 10 | 0 – 10 | | |
| 3 | Initial Delay | 0.1mS – 200.0mS | 0 – 127 | table#5 | |
| 4 | HPF Cutoff | Thru – 8.0kHz | 0 – 52 | table#3 | |
| 5 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 15 | | | | | |
| 16 | | | | | |

| Insertion block | | | | | |
|------------------------|-------------------|--------------------------------------------|-----------|------------|---------|
| Delay LCR | | | | | |
| MSB = 05 | | | | | |
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Lch Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 2 | Rch Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 3 | Cch Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 4 | Feedback Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 6 | Cch Level | 0 – 127 | 0 – 127 | (table#18) | |
| 7 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| Insertion block | | | | | |
|------------------------|-------------------|--------------------------------------------|-----------|------------|---------|
| Delay LR | | | | | |
| MSB = 06 | | | | | |
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Lch Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 2 | Rch Delay | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 14860 | | |
| 3 | Feedback Delay 1 | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 16383 | | |
| 4 | Feedback Delay 2 | 0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3) | 1 – 14860 | | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 6 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| Insertion block | | | | | |
|------------------------|--------------------|-------------------------------------------|-----------|------------|---------|
| Echo | | | | | |
| MSB = 07 | | | | | |
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Lch Delay1 | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 2 | Lch Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Rch Delay1 | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 4 | Rch Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 5 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 6 | Lch Delay2 | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 7 | Rch Delay2 | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 8 | Delay2 Level | 0 – 127 | 0 – 127 | (table#18) | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| Insertion block | | | | | |
|------------------------|-------------------|-------------------------------------------|-----------|------------|---------|
| Cross Delay | | | | | |
| MSB = 08 | | | | | |
| No. | Parameter | Display | Value | See Table | Control |
| 1 | L->R Delay | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 2 | R->L Delay | 0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3) | 1 – 14860 | | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 4 | Input Select | L, R, L&R | 0 – 2 | | |
| 5 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| MSB = 09 | | | | | |
|----------|----------------|------------------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Type | S-H, L-H, Rdm, Rvs, Plt, Spr | 0 – 5 | | |
| 2 | Room Size | 0.1 – 20.0 | 0 – 127 | table#6 | |
| 3 | Diffusion | 0 – 10 | 0 – 10 | | |
| 4 | Initial Delay | 0.1mS – 200.0mS | 0 – 127 | table#5 | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 6 | HPF Cutoff | Thru – 8.0kHz | 0 – 52 | table#3 | |
| 7 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Liveness | 0 – 10 | 0 – 10 | | |
| 12 | Density | 0 – 3 | 0 – 3 | | |
| 13 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

| MSB = 21 | | | | | |
|----------|--------------------|--------------------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Delay Time | 64th/3 – 4thx6 | 0 – 19 | | |
| 2 | Feedback Level | -63 – +63 | 1 – 127 | (table#14) | |
| 3 | Feedback High Dump | 0.1 – 1.0 | 1 – 10 | (table#16) | |
| 4 | L/R Diffusion | 1(-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 5 | Lag | 1(-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| MSB = 10 MSB = 11 | | | | | |
|----------------------|----------------|---------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Type | TypeA, TypeB | 0 – 1 | | |
| 2 | Room Size | 0.1 – 20.0 | 0 – 127 | table#6 | |
| 3 | Diffusion | 0 – 10 | 0 – 10 | | |
| 4 | Initial Delay | 0.1mS – 200.0mS | 0 – 127 | table#5 | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 6 | HPF Cutoff | Thru – 8.0kHz | 0 – 52 | table#3 | |
| 7 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Liveness | 0 – 10 | 0 – 10 | | |
| 12 | Density | 0 – 3 | 0 – 3 | | |
| 13 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

| MSB = 22 | | | | | |
|----------|--------------------|--------------------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Delay Time L>R | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 2 | Delay Time R>L | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 4 | Input Select | L, R, L&R | 0 – 2 | | |
| 5 | Feedback High Dump | 0.1 – 1.0 | 1 – 10 | | |
| 6 | Lag | 1(-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | | |
| 14 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 15 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | | |
| 16 | EQ High Gain | -12 – +12dB | 52 – 76 | | |

| MSB = 16 MSB = 17 MSB = 18 MSB = 19 | | | | | |
|----------------------------------------------|----------------|---------------------------------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Reverb Time | 0.3 – 30.0s | 0 – 69 | table#4 | |
| 2 | Diffusion | 0 – 10 | 0 – 10 | | |
| 3 | Initial Delay | 0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2) | 0 – 127 | table#5 | |
| 4 | HPF Cutoff | Thru – 8.0kHz | 0 – 52 | table#3 | |
| 5 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 6 | Width | 0.5 – 30.2m (*1) 0.5 – 10.2m (*2) | 0 – 104 | table#11 | |
| 7 | Height | 0.5 – 30.2m (*1) 0.5 – 20.2m (*2) | 0 – 104 | table#11 | |
| 8 | Depth | 0.5 – 30.2m | 0 – 104 | table#11 | |
| 9 | Wall Vary | 0 – 30 | 0 – 30 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Rev Delay | 0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2) | 0 – 127 | table#5 | |
| 12 | Density | 0 – 4 | 0 – 4 | | |
| 13 | Er/Rev Balance | E63>R – E=R – E<R63 | 1 – 127 | | |
| 14 | High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 15 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 16 | | | | | |

| MSB = 65 LSB = 66 | | | | | |
|----------------------|-----------------------|---------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#17) | |
| 4 | Delay Offset | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | Input Mode | mono/stereo | 0 – 1 | | |
| 15 | | | | | |
| 16 | | | | | |

| MSB = 20 | | | | | |
|----------|----------------|---------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Delay Time | 0.1mS – 400.0mS | 0 – 127 | table#7 | |
| 2 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | HPF Cutoff | Thru – 8.0kHz | 0 – 52 | table#3 | |
| 4 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Density | 0 – 3 | 0 – 3 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

| MSB = 67 | | | | | |
|----------|-----------------------|--------------------------------------|---------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#17) | |
| 4 | Delay Offset | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | LFO Phase Difference | -180 – +180deg (resolution=3deg.) | 4 – 124 | | |
| 15 | | | | | |
| 16 | | | | | |

**Insertion block
Symphonic**
MSB = 68

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|---------------------|---------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Delay Offset | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

**Insertion block
Tremolo**
MSB = 70

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|---------------------------------------|---------|-----------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | AM Depth | 0 – 127 | 0 – 127 | | |
| 3 | PM Depth | 0 – 127 | 0 – 127 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | | | | | |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | LFO Phase Difference | -180° – +180deg (resolution=3deg.) | 4 – 124 | | |
| 15 | Input Mode | mono/stereo | 0 – 1 | | |
| 16 | | | | | |

MSB = 69, LSB = 0, 16

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|---------------------|---------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 69, LSB = 1
MSB = 69, LSB = 2

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|---------------------|---------|------------|---------|
| 1 | LFO Frequency | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | Drive | 0 – 127 | 0 – 127 | | |
| 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#3 | |
| 16 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |

MSB = 69, LSB = 3

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|-------------------------|---------|------------|---------|
| 1 | LFO Frequency | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | Drive | 0 – 127 | 0 – 127 | | |
| 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#3 | |
| 16 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |

**Insertion block
AutoPan**
MSB = 71
LSB = 0,16,17,18,19, 20, 21, 22

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|--------------------------------------|---------|-----------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | L/R Depth | 0 – 127 | 0 – 127 | | |
| 3 | F/R Depth | 0 – 127 | 0 – 127 | | |
| 4 | PAN Direction | L<->R, L->R, L<-R, Lturn, Rturn, L/R | 0 – 5 | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | | | | | |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 71, LSB = 1

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|--------------------------------------|---------|-----------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | L/R Depth | 0 – 127 | 0 – 127 | | |
| 3 | F/R Depth | 0 – 127 | 0 – 127 | | |
| 4 | PAN Direction | L<->R, L->R, L<-R, Lturn, Rturn, L/R | 0 – 5 | | |
| 5 | LFO Wave | 0 – 28 | 0 – 28 | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | | | | | |
| 11 | EQ Mid Frequency (*4) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*4) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*4) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | | | | | |
| 15 | Input Mode | Mono, Stereo | 0 – 1 | | |
| 16 | | | | | |

**Insertion block
Phaser**
MSB = 72, LSB = 0, 16, 17, 18

| No. | Parameter | Display | Value | See Table | Control |
|-----|--------------------|----------------------------|------------------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Phase Shift Offset | 0 – 127 | 0 – 127 | | |
| 4 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Stage | 4 – 22 (*2) 4 – 12 (*3) | 4 – 22 4 – 12 | | |
| 12 | Diffusion | mono/stereo | 0 – 1 | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos

MSB = 72, LSB = 8

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|-----------------------------------------|---------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Phase Shift Offset | 0 – 127 | 0 – 127 | | |
| 4 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Stage | 3 – 11 | 3 – 11 | | |
| 12 | | | | | |
| 13 | LFO Phase Difference | -180deg – +180deg (resolution=3deg.) | 4 – 124 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

**MSB = 75, LSB = 0,16,17, 22, 23
MSB = 75, LSB = 21 (*3)**

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|-------------------------|---------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | |
| 2 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | |
| 3 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 4 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Edge (Clip Curve) | 0 – 127 (mild – sharp) | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

**MSB = 73, LSB = 0
MSB = 74, LSB = 0**

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|------------------------|---------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | ● |
| 2 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 3 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 4 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 5 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Edge (Clip Curve) | 0 – 127 (mild – sharp) | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 75, LSB = 1

| No. | Parameter | Display | Value | See Table | Control |
|-----|--------------|---------------------------------------------------|---------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | |
| 2 | AMP Type | Off, Stack, Combo, Tube, Crunch, Hi gain, British | 0 – 6 | | |
| 3 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 4 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 73, LSB = 1, 16

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|------------------------|----------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | ● |
| 2 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 3 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 4 | LPF Cutoff | 1.0kHz – Thru | 34 – 60 | table#3 | |
| 5 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Edge (Clip Curve) | 0 – 127 (mild – sharp) | 0 – 127 | | |
| 12 | Attack | 1ms – 40ms | 0 – 19 | table#8 | |
| 13 | Release | 10ms – 680ms | 0 – 15 | table#9 | |
| 14 | Threshold | -48dB – -6dB | 79 – 121 | table#10 | |
| 15 | Ratio | 1.0 – 20.0 | 0 – 7 | | |
| 16 | | | | | |

**MSB = 75, LSB = 8, 18, 19, 20
MSB = 75, LSB = 21 (*2)**

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|-------------------------|---------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | |
| 2 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | |
| 3 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#3 | |
| 4 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Edge (Clip Curve) | 0 – 127 (mild – sharp) | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 73, LSB = 8

MSB = 74, LSB = 8

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|---------------------|---------|------------|---------|
| 1 | Drive | 0 – 127 | 0 – 127 | | ● |
| 2 | EQ Low Frequency | 32 – 2.0kHz | 4 – 40 | table#3 | |
| 3 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 4 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#3 | |
| 5 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Edge (Clip Curve) | 0 – 127 | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|-----------------|---------|-----------|---------|
| 1 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 2 | EQ Mid Frequency | 100Hz – 16.0kHz | 14 – 58 | table#3 | |
| 3 | EQ Mid Gain | -12 – +12dB | 52 – 76 | | |
| 4 | EQ Mid Width | 0.1 – 12.0 | 1 – 120 | | |
| 5 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 6 | EQ Low Frequency | 50Hz – 2.0kHz | 8 – 40 | table#3 | |
| 7 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | Input Mode | mono/stereo | 0 – 1 | | |
| 16 | | | | | |

MSB = 77

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|-----------------|---------|-----------|---------|
| 1 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 2 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 3 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 4 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 80, LSB = 1

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------|---------------------|----------|------------|---------|
| 1 | Pitch | -24 – +24 | 40 – 88 | | |
| 2 | Initial Delay | 0.1mS – 400.0mS | 0 – 127 | | |
| 3 | Fine 1 | -50 – +50 | 14 – 114 | table#7 | |
| 4 | Fine 2 | -50 – +50 | 14 – 114 | | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Pan 1 | L63 – R63 | 1 – 127 | | |
| 12 | Output Level 1 | 0 – 127 | 0 – 127 | (table#18) | |
| 13 | Pan 2 | L63 – R63 | 1 – 127 | | |
| 14 | Output Level 2 | 0 – 127 | 0 – 127 | (table#18) | |
| 15 | | | | | |
| 16 | | | | | |

Variation/Insertion block
AutoWah
MSB = 78, LSB = 0, 16

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------------|---------------------|----------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | ● |
| 4 | Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Drive (*4) | 0 – 127 | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 81

| No. | Parameter | Display | Value | See Table | Control |
|-----|------------|-----------------|---------|-----------|---------|
| 1 | HPF Cutoff | 500Hz – 16.0kHz | 28 – 58 | | |
| 2 | Drive | 0 – 127 | 0 – 127 | | |
| 3 | Mix Level | 0 – 127 | 0 – 127 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 78, LSB = 1, 2, 17, 18

| No. | Parameter | Display | Value | See Table | Control |
|-----|--------------------------|---------------------|----------|------------|---------|
| 1 | LFO Frequency | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | ● |
| 4 | Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Drive | 0 – 127 | 0 – 127 | | |
| 12 | EQ Low Gain (distortion) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Gain (distortion) | -12 – +12dB | 52 – 76 | | |
| 14 | LPF Cutoff | 1.0kHz – thru | 34 – 60 | table#3 | |
| 15 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 16 | | | | | |

MSB = 82, LSB = 0

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------------|---------------------|----------|------------|---------|
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 2 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | ● |
| 3 | Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Drive (*4) | 0 – 127 | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 80, LSB = 0, 16

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------|---------------------|----------|------------|---------|
| 1 | Pitch | -24 – +24 | 40 – 88 | | |
| 2 | Initial Delay | 0.1mS – 400.0mS | 0 – 127 | table#7 | |
| 3 | Fine 1 | -50 – +50 | 14 – 114 | | |
| 4 | Fine 2 | -50 – +50 | 14 – 114 | | |
| 5 | Feedback Level | -63 – +63 | 1 – 127 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Pan 1 | L63 – R63 | 1 – 127 | | |
| 12 | Output Level 1 | 0 – 127 | 0 – 127 | (table#18) | |
| 13 | Pan 2 | L63 – R63 | 1 – 127 | | |
| 14 | Output Level 2 | 0 – 127 | 0 – 127 | (table#18) | |
| 15 | | | | | |
| 16 | | | | | |

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------------|---------------------|----------|------------|---------|
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 2 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | ● |
| 3 | Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Drive | 0 – 127 | 0 – 127 | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos

| MSB = 82, LSB = 8, 18, 19 | | | | | | MSB = 85 | | | | | |
|----------------------------------------|----------------------------------|-------------------------|----------|------------|---------|----------|---------------------|-------------------------------------|---------|-----------|---------|
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | | 1 | | | | | |
| 2 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | | 2 | | | | | |
| 3 | Resonance | 1.0 – 12.0 | 10 – 120 | | ● | 3 | | | | | |
| 4 | | | | | | 4 | | | | | |
| 5 | | | | | | 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | | 6 | | | | | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | | 7 | | | | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | | 8 | | | | | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | | 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | | 10 | | | | | |
| 11 | Drive (*4) | 0 – 127 | 0 – 127 | | | 11 | Low Adjust | 0 – 26 | 0 – 26 | | |
| 12 | EQ Low Gain (*4) (distortion) | -12 – +12dB | 52 – 76 | | | 12 | High Adjust | 0 – 26 | 0 – 26 | | |
| 13 | EQ Mid Gain (*4) (distortion) | -12 – +12dB | 52 – 76 | | | 13 | | | | | |
| 14 | LPF Cutoff (*4) | 1.0kHz – thru | 34 – 60 | table#3 | | 14 | | | | | |
| 15 | Output Level (*4) | 0 – 127 | 0 – 127 | (table#18) | | 15 | | | | | |
| 16 | Release | 10 – 680ms | 52 – 67 | table#12 | | 16 | | | | | |
| MSB = 82, LSB = 2, 17 | | | | | | | | | | | |
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | | 1 | Rotor Speed | 0.0Hz – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | Cutoff Frequency Offset | 0 – 127 | 0 – 127 | | | 2 | Drive Low | 0 – 127 | 0 – 127 | | |
| 3 | Resonance | 1.0 – 12.0 | 10 – 120 | | ● | 3 | Drive High | 0 – 127 | 0 – 127 | | |
| 4 | | | | | | 4 | Low/High | L63>H – L=H – L<H63 | 1 – 127 | | |
| 5 | | | | | | 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | | 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | | 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | table#3 | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | | 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | | 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | | 10 | | | | | |
| 11 | Drive | 0 – 127 | 0 – 127 | | | 11 | Crossover Frequency | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Low Gain (distortion) | -12 – +12dB | 52 – 76 | | | 12 | Mic L-R Angle | 0deg – 180deg (resolution=3deg.) | 0 – 60 | | |
| 13 | EQ Mid Gain (distortion) | -12 – +12dB | 52 – 76 | | | 13 | | | | | |
| 14 | LPF Cutoff | 1.0kHz – thru | 34 – 60 | table#3 | | 14 | | | | | |
| 15 | Output Level | 0 – 127 | 0 – 127 | (table#18) | | 15 | | | | | |
| 16 | Release | 10 – 680ms | 52 – 67 | table#12 | | 16 | | | | | |
| MSB = 83 | | | | | | | | | | | |
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Attack | 1 – 40ms | 0 – 19 | table#8 | | 1 | Rotor Speed | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | Release | 10 – 680ms | 0 – 15 | table#9 | | 2 | Drive Low | 0 – 127 | 0 – 127 | | |
| 3 | Threshold | -48 – -6dB | 79-121 | | | 3 | Drive High | 0 – 127 | 0 – 127 | | |
| 4 | Ratio | 1.0 – 20.0 | 0 – 7 | table#10 | | 4 | Low/High Balance | L63>H – L=H – L<H=63 | 1 – 127 | | |
| 5 | Output Level | 0 – 127 | 0 – 127 | (table#18) | | 5 | | | | | |
| 6 | | | | | | 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | | | | | | 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | table#3 | |
| 8 | | | | | | 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | | | | | | 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | | | | | | 10 | | | | | |
| 11 | | | | | | 11 | Crossover Frequency | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | | | | | | 12 | Mic L-R Angle | 0 – 180deg | 0 – 60 | | |
| 13 | | | | | | 13 | | | | | |
| 14 | | | | | | 14 | Drive | 0 – 127 | 0 – 127 | | |
| 15 | | | | | | 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#18) | |
| 16 | | | | | | 16 | Output Level | 0 – 127 | 0 – 127 | | |
| MSB = 84 | | | | | | | | | | | |
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Attack | 1 – 40ms | 0 – 19 | table#8 | | 1 | Rotor Speed | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● |
| 2 | Release | 10 – 680ms | 0 – 15 | table#9 | | 2 | Drive Low | 0 – 127 | 0 – 127 | | |
| 3 | Threshold | -72 – -30dB | 55 – 97 | | | 3 | Drive High | 0 – 127 | 0 – 127 | | |
| 4 | Output Level | 0 – 127 | 0 – 127 | (table#18) | | 4 | Low/High Balance | L63>H – L=H – L<H=63 | 1 – 127 | | |
| 5 | | | | | | 5 | | | | | |
| 6 | | | | | | 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | | | | | | 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | table#3 | |
| 8 | | | | | | 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | | | | | | 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | | | | | | 10 | | | | | |
| 11 | | | | | | 11 | Crossover Frequency | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | | | | | | 12 | Mic L-R Angle | 0 – 180deg | 0 – 60 | | |
| 13 | | | | | | 13 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | |
| 14 | | | | | | 14 | Drive | 0 – 127 | 0 – 127 | | |
| 15 | | | | | | 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#18) | |
| 16 | | | | | | 16 | Output Level | 0 – 127 | 0 – 127 | | |
| MSB = 86, LSB = 1 MSB = 86, LSB = 2 | | | | | | | | | | | |
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Rotor Speed | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● | 1 | | | | | |
| 2 | Drive Low | 0 – 127 | 0 – 127 | | | 2 | | | | | |
| 3 | Drive High | 0 – 127 | 0 – 127 | | | 3 | | | | | |
| 4 | Low/High Balance | L63>H – L=H – L<H=63 | 1 – 127 | | | 4 | | | | | |
| 5 | | | | | | 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | | 6 | | | | | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | table#3 | | 7 | | | | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | | 8 | | | | | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | | 9 | | | | | |
| 10 | | | | | | 10 | | | | | |
| 11 | Crossover Frequency | 100Hz – 10.0kHz | 14 – 54 | table#3 | | 11 | | | | | |
| 12 | Mic L-R Angle | 0 – 180deg | 0 – 60 | | | 12 | | | | | |
| 13 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | | 13 | | | | | |
| 14 | Drive | 0 – 127 | 0 – 127 | | | 14 | | | | | |
| 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#18) | | 15 | | | | | |
| 16 | Output Level | 0 – 127 | 0 – 127 | | | 16 | | | | | |
| MSB = 86, LSB = 3 | | | | | | | | | | | |
| No. | Parameter | Display | Value | See Table | Control | No. | Parameter | Display | Value | See Table | Control |
| 1 | Rotor Speed | 0.0 – 39.7Hz | 0 – 127 | table#1 | ● | 1 | | | | | |
| 2 | Drive Low | 0 – 127 | 0 – 127 | | | 2 | | | | | |
| 3 | Drive High | 0 – 127 | 0 – 127 | | | 3 | | | | | |
| 4 | Low/High Balance | L63>H – L=H – L<H=63 | 1 – 127 | | | 4 | | | | | |
| 5 | | | | | | 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | | 6 | | | | | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | table#3 | | 7 | | | | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | | 8 | | | | | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | | 9 | | | | | |
| 10 | | | | | | 10 | | | | | |
| 11 | Crossover Frequency | 100Hz – 10.0kHz | 14 – 54 | table#3 | | 11 | | | | | |
| 12 | Mic L-R Angle | 0 – 180deg | 0 – 60 | | | 12 | | | | | |
| 13 | AMP Type | Off, Stack, Combo, Tube | 0 – 3 | | | 13 | | | | | |
| 14 | Drive | 0 – 127 | 0 – 127 | | | 14 | | | | | |
| 15 | LPF Cutoff | 1kHz – Thru | 34 – 60 | table#18) | | 15 | | | | | |
| 16 | Output Level | 0 – 127 | 0 – 127 | | | 16 | | | | | |

MSB = 87

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|---------------------|----------|------------|---------|
| 1 | Detune | -50 – +50cent | 14 – 114 | | |
| 2 | Lch Init Delay | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 3 | Rch Init Delay | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 12 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 13 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 14 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 95

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|-----------|------------|---------|
| 1 | Lch Delay Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 2 | Rch Delay Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 3 | Delay Feedback Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 4 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 5 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 6 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 7 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 8 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 9 | Dist EQ Mid Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 88

| No. | Parameter | Display | Value | See Table | Control |
|-----|-------------------|---------------------|---------|------------|---------|
| 1 | Delay Time | 0.0mS – 50mS | 0 – 127 | table#2 | |
| 2 | Output Phase | normal/inverse | 0 – 1 | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 96

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|-----------|------------|---------|
| 1 | Delay Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 2 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 4 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 5 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 7 | Dist EQ Mid Gain | -12 – +12dB | 52 – 76 | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Comp. Attack | 1ms – 40ms | 0 – 19 | table#8 | |
| 12 | Comp. Release | 10ms – 680ms | 0 – 15 | table#9 | |
| 13 | Comp. Threshold | -48dB – -6dB | 79 – 121 | | |
| 14 | Comp. Ratio | 1.0 – 20.0 | 0 – 7 | table#10 | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 93

| No. | Parameter | Display | Value | See Table | Control |
|-----|--------------|---------------|---------|------------|---------|
| 1 | Vowel | a, i, u, e, o | 0 – 4 | | ● |
| 2 | Move speed | 1 – 62 | 1 – 62 | | |
| 3 | Drive | 0 – 127 | 0 – 127 | | |
| 4 | Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 97

| No. | Parameter | Display | Value | See Table | Control |
|-----|------------------------|---------------------|-----------|------------|---------|
| 1 | Delay Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 2 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 4 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 5 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 7 | Dist EQ Mid Gain | -12 – +12dB | 52 – 76 | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Wah Sensitivity | 0 – 127 | 0 – 127 | | |
| 12 | Wah Cutoff Freq Offset | 0 – 127 | 0 – 127 | | |
| 13 | Wah Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 14 | Wah Release | 10 – 680ms | 52 – 67 | table#12 | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 94

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------------|-----------------------------------------|----------|------------|---------|
| 1 | Sampling Freq Control | 44.1kHz – 345Hz | 0 – 127 | table#13 | |
| 2 | Word Length | 1 – 127 | 1 – 127 | | |
| 3 | Output Gain | -6 – +36dB | 0 – 42 | | |
| 4 | LPF Cutoff | 63Hz – Thru | 10 – 60 | table#3 | |
| 5 | Filter Type | Thru, PowerBass, Radio, Tel, Clean, Low | 0 – 5 | | |
| 6 | LPF Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 7 | Bit Assign | 0 – 6 | 0 – 6 | | |
| 8 | Emphasis | Off/On | 0 – 1 | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | Input Mode | mono/stereo | | | |
| 16 | | | | | |

**MSB = 98, LSB = 0
MSB = 98, LSB = 2**

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------------|-------------------------------------------|---------|------------|---------|
| 1 | Overdrive | 0 – 100% | 0 – 100 | | |
| 2 | Device | Transistor/Vintage Tube/ Dist1/Dist2/Fuzz | 0 – 4 | | |
| 3 | Speaker | Flat/Stack/Combo/Twin/ Radio/Megaphone | 0 – 5 | | |
| 4 | Presence | 0 – 20 | 0 – 20 | | |
| 5 | Output Level | 0 – 100% | 0 – 100 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Effect Parameter List / Liste der Effektparparameter / Liste des paramètres d'effets / Lista de parámetros de efectos

| MSB = 98, LSB = 1 MSB = 98, LSB = 3 | | | | | |
|----------------------------------------|----------------------|----------------------------------------------|-----------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Overdrive | 0 – 100% | 0 – 100 | | |
| 2 | Device | Transistor/Vintage Tube/ Dist1/Dist2/Fuzz | 0 – 4 | | |
| 3 | Speaker | Flat/Stack/Combo/Twin/ Radio/Megaphone | 0 – 5 | | |
| 4 | Presence | 0 – 20 | 0 – 20 | | |
| 5 | Output Level | 0 – 100% | 0 – 100 | | |
| 6 | Delay Time L | 0.1 – 1638.3ms | 1 – 16383 | | |
| 7 | Delay Time R | 0.1 – 1638.3ms | 1 – 16383 | | |
| 8 | Delay Feedback Time | 0.1 – 1638.3ms | 1 – 16383 | | |
| 9 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 10 | Dry/Wet Balance | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 12 | Feedback High Dump | 0.1 – 1.0 | 1 – 10 | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 99

| No. | Parameter | Display | Value | See Table | Control |
|-----|---------------------|----------------------|----------|-----------|---------|
| 1 | Rotor Speed Slow | 0.0Hz – 2.65Hz | 0 – 63 | table#1 | |
| 2 | Horn Speed Slow | 0.0Hz – 2.65Hz | 0 – 63 | table#1 | |
| 3 | Rotor Speed Fast | 2.69Hz – 39.7Hz | 64 – 127 | table#1 | |
| 4 | Horn Speed Fast | 2.69Hz – 39.7Hz | 64 – 127 | table#1 | |
| 5 | Slow-Fast Time of R | 0 – 127 | 0 – 127 | | |
| 6 | Slow-Fast Time of H | 0 – 127 | 0 – 127 | | |
| 7 | Drive Low | 0 – 127 | 0 – 127 | | |
| 8 | Drive High | 0 – 127 | 0 – 127 | | |
| 9 | Low/High Balance | L63>H – L=H – L<H=63 | 1 – 127 | | |
| 10 | | | | | |
| 11 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 12 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 13 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 14 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 15 | Mic L-R Angle | 0 – 180deg | 0 – 60 | | |
| 16 | Speed Control | Slow/Fast | 0/1 | | ● |

MSB = 100

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|--------------------------------|---------|------------|---------|
| 1 | Delay Time | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 2 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 4 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 5 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 7 | Dist EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 8 | L/R Diffusion | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 9 | Lag | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 101

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|--------------------------------|----------|------------|---------|
| 1 | Delay Time | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 2 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 4 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 5 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 7 | Dist EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 8 | L/R Diffusion | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 9 | Lag | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | Comp. Attack | 1ms – 40ms | 0 – 19 | table#8 | |
| 12 | Comp. Release | 10ms – 680ms | 0 – 15 | table#9 | |
| 13 | Comp. Threshold | -48dB – -6dB | 79 – 121 | | |
| 14 | Comp. Ratio | 1.0 – 20.0 | 0 – 7 | table#10 | |
| 15 | | | | | |
| 16 | | | | | |

| MSB = 102 | | | | | |
|-----------|------------------------|--------------------------------|----------|------------|---------|
| No. | Parameter | Display | Value | See Table | Control |
| 1 | Delay Time | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 2 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 3 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 4 | Dist Drive | 0 – 127 | 0 – 127 | | |
| 5 | Dist Output Level | 0 – 127 | 0 – 127 | (table#18) | |
| 6 | Dist EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 7 | Dist EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 8 | L/R Diffusion | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 9 | Lag | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | Wah Sensitivity | 0 – 127 | 0 – 127 | | |
| 12 | Wah Cutoff Freq Offset | 0 – 127 | 0 – 127 | | |
| 13 | Wah Resonance | 1.0 – 12.0 | 10 – 120 | | |
| 14 | Wah Release | 10 – 680mS | 52 – 67 | table#12 | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 103

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|----------------------------------------------|---------|------------|---------|
| 1 | Overdrive | 0 – 100% | 0 – 100 | | |
| 2 | Device | Transistor/Vintage Tube/ Dist1/Dist2/Fuzz | 0 – 4 | | |
| 3 | Speaker | Flat/Stack/Combo/Twin/ Radio/Megaphone | 0 – 5 | | |
| 4 | Presence | 0 – 20 | 0 – 20 | | |
| 5 | Output Level | 0 – 100% | 0 – 100 | | |
| 6 | Delay Time | 64th/3 – 4thx6 | 0 – 19 | table#14 | |
| 7 | Delay Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 8 | L/R Diffusion | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 9 | Lag | (1-63ms) – 64(0ms) – 127(63ms) | 1 – 127 | | |
| 10 | Dry/Wet Balance | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | Delay Mix | 0 – 127 | 0 – 127 | | |
| 12 | Feedback High Dump | 0.1 – 1.0 | 1 – 10 | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 104

| No. | Parameter | Display | Value | See Table | Control |
|-----|--------------------|------------------------|---------|------------|---------|
| 1 | LFO Freq | 0.0 – 39.70[Hz] | 0 – 127 | table#1 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | LFO Wave | Triangle, Sine, Random | 0 – 2 | | |
| 4 | Delay Offset | 0.09 – 36.21[ms] | 0 – 139 | table#23 | |
| 5 | Feedback Level | -100 – +100[%] | 0 – 200 | | |
| 6 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 8 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W=63 | 1 – 127 | (table#15) | ● |
| 11 | EQ mid frequency | 100[Hz] – 10.0[kHz] | 14 – 54 | table#3 | |
| 12 | EQ mid gain | -12 – +12[dB] | 52 – 76 | | |
| 13 | EQ mid width | 0.1 – 12.0 | 1 – 120 | | |
| 14 | Modulation Phase | -180 – +180[deg] | 0 – 16 | table#24 | |
| 15 | Feedback High Damp | 0.1 – 1.0 | 1 – 10 | | |
| 16 | Analog Feel | 0 – 10 | 0 – 10 | | |

MSB = 105

| No. | Parameter | Display | Value | See Table | Control |
|-----|------------------|--------------------------------------------------------------------------------------------------------------|---------|-----------|---------|
| 1 | Type | Normal, Low, Mid, High, Low/High, Low/Mid, Mid/ High, Full Bit, Wild, Attacky, Low End, Hard, Basic | 0 – 12 | | |
| 2 | Threshold Offset | -32 – +32 | 32 – 96 | | |
| 3 | Low Gain Offset | -63 – +63 | 1 – 127 | | |
| 4 | Mid Gain Offset | -63 – +63 | 1 – 127 | | |
| 5 | High Gain Offset | -63 – +63 | 1 – 127 | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 107

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|---------|------------|---------|
| 1 | LFO Freq | 16th – 4thx8 | 5 – 21 | table#14 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#17) | |
| 4 | Delay Offset | 0.0 – 50.0[ms] | 0 – 127 | table#2 | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 8 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | | | | | |
| 12 | EQ mid frequency | 100[Hz] – 10.0[kHz] | 14 – 54 | table#3 | |
| 13 | EQ mid gain | -12 – +12[dB] | 52 – 76 | | |
| 14 | EQ mid width | 0.1 – 12.0 | 1 – 120 | | |
| 15 | LFO phase difference | -180 – +180[deg] | 4 – 124 | | |
| 16 | | | | | |

MSB = 108

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|---------|------------|---------|
| 1 | LFO Freq | 16th – 4thx8 | 5 – 21 | table#14 | |
| 2 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 3 | Phase Shift Offset | 0 – 127 | 0 – 127 | | |
| 4 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 8 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | Stage | 3 – 11 | 3 – 11 | | |
| 12 | | | | | |
| 13 | LFO phase difference | -180 – +180[deg] | 4 – 124 | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 109

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|--------------------------------------------------|---------|------------|---------|
| 1 | Filter Type | LPF (12dB), LPF (18dB), LPF (24dB), HPF, BP, BEF | 0 – 5 | | |
| 2 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 3 | Dyna Level Offset | 0 – 127 | 0 – 127 | | |
| 4 | Resonance | -16 – +111 | 0 – 127 | | |
| 5 | Attack Time | 0.3 – 227[ms] | 0 – 127 | table#20 | |
| 6 | Release Time | 2.6 – 2171[ms] | 0 – 127 | table#21 | |
| 7 | Release Curve | 0 – 127 | 0 – 127 | | |
| 8 | Direction | Up, Down | 0 – 1 | | |
| 9 | Dyna Threshold Level | 0 – 127 | 0 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 15 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |

MSB = 110

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|---------|------------|---------|
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 2 | Delay Time Offset | 0 – 127 | 0 – 127 | | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#17) | |
| 4 | Attack Time | 0.3 – 227[ms] | 0 – 127 | table#20 | |
| 5 | Release Time | 2.6 – 2171[ms] | 0 – 127 | table#21 | |
| 6 | Release Curve | 0 – 127 | 0 – 127 | | |
| 7 | Direction | Up, Down | 0 – 1 | | |
| 8 | Dyna Threshold Level | 0 – 127 | 0 – 127 | | |
| 9 | Dyna Level Offset | 0 – 127 | 0 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 15 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |

MSB = 111

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|---------------------|---------|------------|---------|
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 2 | Dyna Level Offset | 0 – 127 | 0 – 127 | | |
| 3 | Feedback Level | -63 – +63 | 1 – 127 | (table#16) | |
| 4 | Attack Time | 0.3 – 227[ms] | 0 – 127 | table#20 | |
| 5 | Release Time | 2.6 – 2171[ms] | 0 – 127 | table#21 | |
| 6 | Release Curve | 0 – 127 | 0 – 127 | | |
| 7 | Direction | Up, Down | 0 – 1 | | |
| 8 | Dyna Threshold Level | 0 – 127 | 0 – 127 | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | Stage | 4, 5, 6 | 4 – 6 | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 15 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |

MSB = 112

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|-----------------------------|---------|------------|---------|
| 1 | Sensitivity | 0 – 127 | 0 – 127 | | |
| 2 | HPF Cutoff Frequency | Thru (20[Hz]) – 8.0[kHz] | 0 – 52 | table#3 | |
| 3 | LPF Cutoff Frequency | 1.0[kHz] – Thru (20.0[kHz]) | 34 – 60 | table#3 | |
| 4 | Attack Time | 0.3 – 227[ms] | 0 – 127 | table#20 | |
| 5 | Release Time | 2.6 – 2171[ms] | 0 – 127 | table#21 | |
| 6 | Release Curve | 0 – 127 | 0 – 127 | | |
| 7 | Direction | Up, Down | 0 – 1 | | |
| 8 | Dyna Threshold Level | 0 – 127 | 0 – 127 | | |
| 9 | Dyna Level Offset | 0 – 127 | 0 – 127 | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 15 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |

MSB = 113

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|-----------------------------|---------|------------|---------|
| 1 | Carrier Freq Coarse | 0.7[Hz] – 5[kHz] | 0 – 127 | table#22 | |
| 2 | Carrier Freq Fine | 0 – 127 | 0 – 127 | | |
| 3 | LFO Wave | Triangle, Sine | 0 – 1 | | |
| 4 | LFO Depth | 0 – 127 | 0 – 127 | (table#19) | |
| 5 | LFO Freq | 0.0 – 39.70[Hz] | 0 – 127 | table#1 | |
| 6 | HPF Cutoff Frequency | Thru (20[Hz]) – 8.0[kHz] | 0 – 52 | table#3 | |
| 7 | LPF Cutoff Frequency | 1.0[kHz] – Thru (20.0[kHz]) | 34 – 60 | table#3 | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | Dry/Wet | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | EQ Low Frequency | 32[Hz] – 2.0[kHz] | 4 – 40 | table#3 | |
| 14 | EQ Low Gain | -12 – +12[dB] | 52 – 76 | | |
| 15 | EQ High Frequency | 500[Hz] – 16.0[kHz] | 28 – 58 | table#3 | |
| 16 | EQ High Gain | -12 – +12[dB] | 52 – 76 | | |

MSB = 115

| No. | Parameter | Display | Value | See Table | Control |
|-----|------------|---------|---------|-----------|---------|
| 1 | On/off SW | Off, On | 0 – 1 | | |
| 2 | Low Level | 0 – 127 | 0 – 127 | | |
| 3 | Mid Level | 0 – 127 | 0 – 127 | | |
| 4 | High Level | 0 – 127 | 0 – 127 | | |
| 5 | Low Mute | Off, On | 0 – 1 | | |
| 6 | Mid Mute | Off, On | 0 – 1 | | |
| 7 | High Mute | Off, On | 0 – 1 | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Insertion block

VibeRotor

MSB = 119

| No. | Parameter | Display | Value | See Table | Control |
|-----|----------------------|--------------------------------------|---------|------------|---------|
| 1 | Vibrate Speed | 0.00Hz – 39.7Hz | 0 – 127 | table#1 | |
| 2 | Vibrate Depth (AM) | 0 – 127 | 0 – 127 | | |
| 3 | Vibrate Depth (PM) | 0 – 127 | 0 – 127 | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | EQ Low Frequency | 32Hz – 2.0kHz | 4 – 40 | table#3 | |
| 7 | EQ Low Gain | -12 – +12dB | 52 – 76 | | |
| 8 | EQ High Frequency | 500Hz – 16.0kHz | 28 – 58 | table#3 | |
| 9 | EQ High Gain | -12 – +12dB | 52 – 76 | | |
| 10 | Dry/Wet Balance | D63>W – D=W – D<W63 | 1 – 127 | (table#15) | ● |
| 11 | EQ Mid Frequency (*) | 100Hz – 10.0kHz | 14 – 54 | table#3 | |
| 12 | EQ Mid Gain (*) | -12 – +12dB | 52 – 76 | | |
| 13 | EQ Mid Width (*) | 0.1 – 12.0 | 1 – 120 | | |
| 14 | LFO Phase Difference | -180 – +180deg (resolution=3deg.) | 4 – 124 | | |
| 15 | Input Mode | mono/stereo | 0 – 1 | | |
| 16 | Vibrate SW | Off, On | 0 – 1 | | |

MSB = 0

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------|---------|-------|-----------|---------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

MSB = 64

| No. | Parameter | Display | Value | See Table | Control |
|-----|-----------|---------|-------|-----------|---------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

(Parameter 10 Dry/Wet only affects insertion type effects.)

(*)1 Reverb Block

(*)2 Variation Block

(*)3 Chorus and Insertion Block(s)

(*)4 Variation Block only

Effect Data Assign Table

Effektdaten-Zuordnungstabelle

Tableau d'assignation des données d'effets

Tabla de asignación de datos para efectos

table#1
LFO Frequency

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.00 | 32 | 1.35 | 64 | 2.69 | 96 | 8.41 |
| 1 | 0.04 | 33 | 1.39 | 65 | 2.78 | 97 | 8.75 |
| 2 | 0.08 | 34 | 1.43 | 66 | 2.86 | 98 | 9.08 |
| 3 | 0.13 | 35 | 1.47 | 67 | 2.94 | 99 | 9.42 |
| 4 | 0.17 | 36 | 1.51 | 68 | 3.03 | 100 | 9.76 |
| 5 | 0.21 | 37 | 1.56 | 69 | 3.11 | 101 | 10.1 |
| 6 | 0.25 | 38 | 1.60 | 70 | 3.20 | 102 | 10.8 |
| 7 | 0.29 | 39 | 1.64 | 71 | 3.28 | 103 | 11.4 |
| 8 | 0.34 | 40 | 1.68 | 72 | 3.37 | 104 | 12.1 |
| 9 | 0.38 | 41 | 1.72 | 73 | 3.45 | 105 | 12.8 |
| 10 | 0.42 | 42 | 1.77 | 74 | 3.53 | 106 | 13.5 |
| 11 | 0.46 | 43 | 1.81 | 75 | 3.62 | 107 | 14.1 |
| 12 | 0.51 | 44 | 1.85 | 76 | 3.70 | 108 | 14.8 |
| 13 | 0.55 | 45 | 1.89 | 77 | 3.87 | 109 | 15.5 |
| 14 | 0.59 | 46 | 1.94 | 78 | 4.04 | 110 | 16.2 |
| 15 | 0.63 | 47 | 1.98 | 79 | 4.21 | 111 | 16.8 |
| 16 | 0.67 | 48 | 2.02 | 80 | 4.37 | 112 | 17.5 |
| 17 | 0.72 | 49 | 2.06 | 81 | 4.54 | 113 | 18.2 |
| 18 | 0.76 | 50 | 2.10 | 82 | 4.71 | 114 | 19.5 |
| 19 | 0.80 | 51 | 2.15 | 83 | 4.88 | 115 | 20.9 |
| 20 | 0.84 | 52 | 2.19 | 84 | 5.05 | 116 | 22.2 |
| 21 | 0.88 | 53 | 2.23 | 85 | 5.22 | 117 | 23.6 |
| 22 | 0.93 | 54 | 2.27 | 86 | 5.38 | 118 | 24.9 |
| 23 | 0.97 | 55 | 2.31 | 87 | 5.55 | 119 | 26.2 |
| 24 | 1.01 | 56 | 2.36 | 88 | 5.72 | 120 | 27.6 |
| 25 | 1.05 | 57 | 2.40 | 89 | 6.06 | 121 | 28.9 |
| 26 | 1.09 | 58 | 2.44 | 90 | 6.39 | 122 | 30.3 |
| 27 | 1.14 | 59 | 2.48 | 91 | 6.73 | 123 | 31.6 |
| 28 | 1.18 | 60 | 2.52 | 92 | 7.07 | 124 | 33.0 |
| 29 | 1.22 | 61 | 2.57 | 93 | 7.40 | 125 | 34.3 |
| 30 | 1.26 | 62 | 2.61 | 94 | 7.74 | 126 | 37.0 |
| 31 | 1.30 | 63 | 2.65 | 95 | 8.08 | 127 | 39.7 |

table#3
EQ Frequency

| Data | Value | Data | Value |
|------|----------|------|-------------|
| 0 | THRU(20) | 32 | 800 |
| 1 | 22 | 33 | 900 |
| 2 | 25 | 34 | 1.0k |
| 3 | 28 | 35 | 1.1k |
| 4 | 32 | 36 | 1.2k |
| 5 | 36 | 37 | 1.4k |
| 6 | 40 | 38 | 1.6k |
| 7 | 45 | 39 | 1.8k |
| 8 | 50 | 40 | 2.0k |
| 9 | 56 | 41 | 2.2k |
| 10 | 63 | 42 | 2.5k |
| 11 | 70 | 43 | 2.8k |
| 12 | 80 | 44 | 3.2k |
| 13 | 90 | 45 | 3.6k |
| 14 | 100 | 46 | 4.0k |
| 15 | 110 | 47 | 4.5k |
| 16 | 125 | 48 | 5.0k |
| 17 | 140 | 49 | 5.6k |
| 18 | 160 | 50 | 6.3k |
| 19 | 180 | 51 | 7.0k |
| 20 | 200 | 52 | 8.0k |
| 21 | 225 | 53 | 9.0k |
| 22 | 250 | 54 | 10.0k |
| 23 | 280 | 55 | 11.0k |
| 24 | 315 | 56 | 12.0k |
| 25 | 355 | 57 | 14.0k |
| 26 | 400 | 58 | 16.0k |
| 27 | 450 | 59 | 18.0k |
| 28 | 500 | 60 | THRU(20.0k) |

table#5
Delay Time (0.1 – 200.0 [ms])

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.1 | 32 | 50.5 | 64 | 100.8 | 96 | 151.2 |
| 1 | 1.7 | 33 | 52.0 | 65 | 102.4 | 97 | 152.8 |
| 2 | 3.2 | 34 | 53.6 | 66 | 104.0 | 98 | 154.4 |
| 3 | 4.8 | 35 | 55.2 | 67 | 105.6 | 99 | 155.9 |
| 4 | 6.4 | 36 | 56.8 | 68 | 107.1 | 100 | 157.5 |
| 5 | 8.0 | 37 | 58.3 | 69 | 108.7 | 101 | 159.1 |
| 6 | 9.5 | 38 | 59.9 | 70 | 110.3 | 102 | 160.6 |
| 7 | 11.1 | 39 | 61.5 | 71 | 111.9 | 103 | 162.2 |
| 8 | 12.7 | 40 | 63.1 | 72 | 113.4 | 104 | 163.8 |
| 9 | 14.3 | 41 | 64.6 | 73 | 115.0 | 105 | 165.4 |
| 10 | 15.8 | 42 | 66.2 | 74 | 116.6 | 106 | 166.9 |
| 11 | 17.4 | 43 | 67.8 | 75 | 118.2 | 107 | 168.5 |
| 12 | 19.0 | 44 | 69.4 | 76 | 119.7 | 108 | 170.1 |
| 13 | 20.6 | 45 | 70.9 | 77 | 121.3 | 109 | 171.7 |
| 14 | 22.1 | 46 | 72.5 | 78 | 122.9 | 110 | 173.2 |
| 15 | 23.7 | 47 | 74.1 | 79 | 124.4 | 111 | 174.8 |
| 16 | 25.3 | 48 | 75.7 | 80 | 126.0 | 112 | 176.4 |
| 17 | 26.9 | 49 | 77.2 | 81 | 127.6 | 113 | 178.0 |
| 18 | 28.4 | 50 | 78.8 | 82 | 129.2 | 114 | 179.5 |
| 19 | 30.0 | 51 | 80.4 | 83 | 130.7 | 115 | 181.1 |
| 20 | 31.6 | 52 | 81.9 | 84 | 132.3 | 116 | 182.7 |
| 21 | 33.2 | 53 | 83.5 | 85 | 133.9 | 117 | 184.3 |
| 22 | 34.7 | 54 | 85.1 | 86 | 135.5 | 118 | 185.8 |
| 23 | 36.3 | 55 | 86.7 | 87 | 137.0 | 119 | 187.4 |
| 24 | 37.9 | 56 | 88.2 | 88 | 138.6 | 120 | 189.0 |
| 25 | 39.5 | 57 | 89.8 | 89 | 140.2 | 121 | 190.6 |
| 26 | 41.0 | 58 | 91.4 | 90 | 141.8 | 122 | 192.1 |
| 27 | 42.6 | 59 | 93.0 | 91 | 143.3 | 123 | 193.7 |
| 28 | 44.2 | 60 | 94.5 | 92 | 144.9 | 124 | 195.3 |
| 29 | 45.7 | 61 | 96.1 | 93 | 146.5 | 125 | 196.9 |
| 30 | 47.3 | 62 | 97.7 | 94 | 148.1 | 126 | 198.4 |
| 31 | 48.9 | 63 | 99.3 | 95 | 149.6 | 127 | 200.0 |

table#7
Delay Time (0.1 – 400.0 [ms])

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.1 | 32 | 100.9 | 64 | 201.6 | 96 | 302.4 |
| 1 | 3.2 | 33 | 104.0 | 65 | 204.8 | 97 | 305.5 |
| 2 | 6.4 | 34 | 107.2 | 66 | 207.9 | 98 | 308.7 |
| 3 | 9.5 | 35 | 110.3 | 67 | 211.1 | 99 | 311.8 |
| 4 | 12.7 | 36 | 113.5 | 68 | 214.2 | 100 | 315.0 |
| 5 | 15.8 | 37 | 116.6 | 69 | 217.4 | 101 | 318.1 |
| 6 | 19.0 | 38 | 119.8 | 70 | 220.5 | 102 | 321.3 |
| 7 | 22.1 | 39 | 122.9 | 71 | 223.7 | 103 | 324.4 |
| 8 | 25.3 | 40 | 126.1 | 72 | 226.8 | 104 | 327.6 |
| 9 | 28.4 | 41 | 129.2 | 73 | 230.0 | 105 | 330.7 |
| 10 | 31.6 | 42 | 132.4 | 74 | 233.1 | 106 | 333.9 |
| 11 | 34.7 | 43 | 135.5 | 75 | 236.3 | 107 | 337.0 |
| 12 | 37.9 | 44 | 138.6 | 76 | 239.4 | 108 | 340.2 |
| 13 | 41.0 | 45 | 141.8 | 77 | 242.6 | 109 | 343.3 |
| 14 | 44.2 | 46 | 144.9 | 78 | 245.7 | 110 | 346.5 |
| 15 | 47.3 | 47 | 148.1 | 79 | 248.9 | 111 | 349.6 |
| 16 | 50.5 | 48 | 151.2 | 80 | 252.0 | 112 | 352.8 |
| 17 | 53.6 | 49 | 154.4 | 81 | 255.2 | 113 | 355.9 |
| 18 | 56.8 | 50 | 157.5 | 82 | 258.3 | 114 | 359.1 |
| 19 | 59.9 | 51 | 160.7 | 83 | 261.5 | 115 | 362.2 |
| 20 | 63.1 | 52 | 163.8 | 84 | 264.6 | 116 | 365.4 |
| 21 | 66.2 | 53 | 167.0 | 85 | 267.7 | 117 | 368.5 |
| 22 | 69.4 | 54 | 170.1 | 86 | 270.9 | 118 | 371.7 |
| 23 | 72.5 | 55 | 173.3 | 87 | 274.0 | 119 | 374.8 |
| 24 | 75.7 | 56 | 176.4 | 88 | 277.2 | 120 | 378.0 |
| 25 | 78.8 | 57 | 179.6 | 89 | 280.3 | 121 | 381.1 |
| 26 | 82.0 | 58 | 182.7 | 90 | 283.5 | 122 | 384.3 |
| 27 | 85.1 | 59 | 185.9 | 91 | 286.6 | 123 | 387.4 |
| 28 | 88.3 | 60 | 189.0 | 92 | 289.8 | 124 | 390.6 |
| 29 | 91.4 | 61 | 192.2 | 93 | 292.9 | 125 | 393.7 |
| 30 | 94.6 | 62 | 195.3 | 94 | 296.1 | 126 | 396.9 |
| 31 | 97.7 | 63 | 198.5 | 95 | 299.2 | 127 | 400.0 |

table#2
Modulation Delay Offset

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.3 | 32 | 3.5 | 64 | 17.0 | | |
| 1 | 0.4 | 33 | 3.6 | 65 | 18.0 | | |
| 2 | 0.5 | 34 | 3.7 | 66 | 19.0 | | |
| 3 | 0.6 | 35 | 3.8 | 67 | 20.0 | | |
| 4 | 0.7 | 36 | 3.9 | 68 | 25.0 | | |
| 5 | 0.8 | 37 | 4.0 | 69 | 30.0 | | |
| 6 | 0.9 | 38 | 4.1 | | | | |
| 7 | 1.0 | 39 | 4.2 | | | | |
| 8 | 1.1 | 40 | 4.3 | | | | |
| 9 | 1.2 | 41 | 4.4 | | | | |
| 10 | 1.3 | 42 | 4.5 | | | | |
| 11 | 1.4 | 43 | 4.6 | | | | |
| 12 | 1.5 | 44 | 4.7 | | | | |
| 13 | 1.6 | 45 | 4.8 | | | | |
| 14 | 1.7 | 46 | 4.9 | | | | |
| 15 | 1.8 | 47 | 5.0 | | | | |
| 16 | 1.9 | 48 | 5.5 | | | | |
| 17 | 2.0 | 49 | 6.0 | | | | |
| 18 | 2.1 | 50 | 6.5 | | | | |
| 19 | 2.2 | 51 | 7.0 | | | | |
| 20 | 2.3 | 52 | 7.5 | | | | |
| 21 | 2.4 | 53 | 8.0 | | | | |
| 22 | 2.5 | 54 | 8.5 | | | | |
| 23 | 2.6 | 55 | 9.0 | | | | |
| 24 | 2.7 | 56 | 9.5 | | | | |
| 25 | 2.8 | 57 | 10.0 | | | | |
| 26 | 2.9 | 58 | 11.0 | | | | |
| 27 | 3.0 | 59 | 12.0 | | | | |
| 28 | 3.1 | 60 | 13.0 | | | | |
| 29 | 3.2 | 61 | 14.0 | | | | |
| 30 | 3.3</ | | | | | | |

table#11
Reverb Width; Depth; Height

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.5 | 32 | 8.8 | 64 | 17.6 | 96 | 27.5 |
| 1 | 0.8 | 33 | 9.1 | 65 | 17.9 | 97 | 27.8 |
| 2 | 1.0 | 34 | 9.4 | 66 | 18.2 | 98 | 28.1 |
| 3 | 1.3 | 35 | 9.6 | 67 | 18.5 | 99 | 28.5 |
| 4 | 1.5 | 36 | 9.9 | 68 | 18.8 | 100 | 28.8 |
| 5 | 1.8 | 37 | 10.2 | 69 | 19.1 | 101 | 29.2 |
| 6 | 2.0 | 38 | 10.4 | 70 | 19.4 | 102 | 29.5 |
| 7 | 2.3 | 39 | 10.7 | 71 | 19.7 | 103 | 29.9 |
| 8 | 2.6 | 40 | 11.0 | 72 | 20.0 | 104 | 30.2 |
| 9 | 2.8 | 41 | 11.2 | 73 | 20.2 | | |
| 10 | 3.1 | 42 | 11.5 | 74 | 20.5 | | |
| 11 | 3.3 | 43 | 11.8 | 75 | 20.8 | | |
| 12 | 3.6 | 44 | 12.1 | 76 | 21.1 | | |
| 13 | 3.9 | 45 | 12.3 | 77 | 21.4 | | |
| 14 | 4.1 | 46 | 12.6 | 78 | 21.7 | | |
| 15 | 4.4 | 47 | 12.9 | 79 | 22.0 | | |
| 16 | 4.6 | 48 | 13.1 | 80 | 22.4 | | |
| 17 | 4.9 | 49 | 13.4 | 81 | 22.7 | | |
| 18 | 5.2 | 50 | 13.7 | 82 | 23.0 | | |
| 19 | 5.4 | 51 | 14.0 | 83 | 23.3 | | |
| 20 | 5.7 | 52 | 14.2 | 84 | 23.6 | | |
| 21 | 5.9 | 53 | 14.5 | 85 | 23.9 | | |
| 22 | 6.2 | 54 | 14.8 | 86 | 24.2 | | |
| 23 | 6.5 | 55 | 15.1 | 87 | 24.5 | | |
| 24 | 6.7 | 56 | 15.4 | 88 | 24.9 | | |
| 25 | 7.0 | 57 | 15.6 | 89 | 25.2 | | |
| 26 | 7.2 | 58 | 15.9 | 90 | 25.5 | | |
| 27 | 7.5 | 59 | 16.2 | 91 | 25.8 | | |
| 28 | 7.8 | 60 | 16.5 | 92 | 26.1 | | |
| 29 | 8.0 | 61 | 16.8 | 93 | 26.5 | | |
| 30 | 8.3 | 62 | 17.1 | 94 | 26.8 | | |
| 31 | 8.6 | 63 | 17.3 | 95 | 27.1 | | |

table#12
Wah Release Time

| Data | Value |
|------|-------|
| 52 | 10 |
| 53 | 15 |
| 54 | 25 |
| 55 | 35 |
| 56 | 45 |
| 57 | 55 |
| 58 | 65 |
| 59 | 75 |
| 60 | 85 |
| 61 | 100 |
| 62 | 115 |
| 63 | 140 |
| 64 | 170 |
| 65 | 230 |
| 66 | 340 |
| 67 | 680 |

table#13
LO-FI Sampling Frequency Control

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 44.1k | 32 | 1.34k | 64 | 678.0 | 96 | 455.0 |
| 1 | 22.1k | 33 | 1.30k | 65 | 668.0 | 97 | 450.0 |
| 2 | 14.7k | 34 | 1.26k | 66 | 658.0 | 98 | 445.0 |
| 3 | 11.0k | 35 | 1.23k | 67 | 649.0 | 99 | 441.0 |
| 4 | 8.8k | 36 | 1.19k | 68 | 639.0 | 100 | 437.0 |
| 5 | 7.4k | 37 | 1.16k | 69 | 630.0 | 101 | 432.0 |
| 6 | 6.3k | 38 | 1.13k | 70 | 621.0 | 102 | 428.0 |
| 7 | 5.5k | 39 | 1.10k | 71 | 613.0 | 103 | 424.0 |
| 8 | 4.9k | 40 | 1.08k | 72 | 604.0 | 104 | 420.0 |
| 9 | 4.4k | 41 | 1.05k | 73 | 596.0 | 105 | 416.0 |
| 10 | 4.0k | 42 | 1.03k | 74 | 588.0 | 106 | 412.0 |
| 11 | 3.7k | 43 | 1.00k | 75 | 580.0 | 107 | 408.0 |
| 12 | 3.4k | 44 | 980.0 | 76 | 573.0 | 108 | 405.0 |
| 13 | 3.2k | 45 | 959.0 | 77 | 565.0 | 109 | 401.0 |
| 14 | 2.9k | 46 | 938.0 | 78 | 558.0 | 110 | 397.0 |
| 15 | 2.8k | 47 | 919.0 | 79 | 551.0 | 111 | 394.0 |
| 16 | 2.6k | 48 | 900.0 | 80 | 544.0 | 112 | 390.0 |
| 17 | 2.5k | 49 | 882.0 | 81 | 538.0 | 113 | 387.0 |
| 18 | 2.3k | 50 | 865.0 | 82 | 531.0 | 114 | 383.0 |
| 19 | 2.2k | 51 | 848.0 | 83 | 525.0 | 115 | 380.0 |
| 20 | 2.1k | 52 | 832.0 | 84 | 519.0 | 116 | 377.0 |
| 21 | 2.0k | 53 | 817.0 | 85 | 513.0 | 117 | 374.0 |
| 22 | 1.92k | 54 | 802.0 | 86 | 507.0 | 118 | 371.0 |
| 23 | 1.84k | 55 | 788.0 | 87 | 501.0 | 119 | 368.0 |
| 24 | 1.76k | 56 | 774.0 | 88 | 496.0 | 120 | 364.0 |
| 25 | 1.70k | 57 | 760.0 | 89 | 490.0 | 121 | 361.0 |
| 26 | 1.63k | 58 | 747.0 | 90 | 485.0 | 122 | 359.0 |
| 27 | 1.58k | 59 | 735.0 | 91 | 479.0 | 123 | 356.0 |
| 28 | 1.52k | 60 | 723.0 | 92 | 474.0 | 124 | 353.0 |
| 29 | 1.47k | 61 | 711.0 | 93 | 469.0 | 125 | 350.0 |
| 30 | 1.42k | 62 | 700.0 | 94 | 464.0 | 126 | 347.0 |
| 31 | 1.38k | 63 | 689.0 | 95 | 459.0 | 127 | 345.0 |

table#14
Tempo

| Data | Value | Data | Value | Data | Value |
|------|--------|------|--------|------|--------|
| 0 | 64th/3 | 32 | 4thX19 | 64 | 4thX51 |
| 1 | 64th. | 33 | 4thX20 | 65 | 4thX52 |
| 2 | 32th | 34 | 4thX21 | 66 | 4thX53 |
| 3 | 32th/3 | 35 | 4thX22 | 67 | 4thX54 |
| 4 | 32th | 36 | 4thX23 | 68 | 4thX55 |
| 5 | 16th | 37 | 4thX24 | 69 | 4thX56 |
| 6 | 16th/3 | 38 | 4thX25 | 70 | 4thX57 |
| 7 | 16th | 39 | 4thX26 | 71 | 4thX63 |
| 8 | 8th | 40 | 4thX27 | 72 | 4thX59 |
| 9 | 8th/3 | 41 | 4thX28 | 73 | 4thX60 |
| 10 | 8th. | 42 | 4thX29 | 74 | 4thX61 |
| 11 | 4th | 43 | 4thX30 | 75 | 4thX62 |
| 12 | 4th/3 | 44 | 4thX31 | 76 | 4thX63 |
| 13 | 4th | 45 | 4thX32 | 77 | 4thX64 |
| 14 | 2nd | 46 | 4thX33 | | |
| 15 | 2nd/3 | 47 | 4thX34 | | |
| 16 | 2nd. | 48 | 4thX35 | | |
| 17 | 4thX4 | 49 | 4thX36 | | |
| 18 | 4thX5 | 50 | 4thX37 | | |
| 19 | 4thX6 | 51 | 4thX38 | | |
| 20 | 4thX7 | 52 | 4thX39 | | |
| 21 | 4thX8 | 53 | 4thX40 | | |
| 22 | 4thX9 | 54 | 4thX41 | | |
| 23 | 4thX10 | 55 | 4thX42 | | |
| 24 | 4thX11 | 56 | 4thX43 | | |
| 25 | 4thX12 | 57 | 4thX44 | | |
| 26 | 4thX13 | 58 | 4thX45 | | |
| 27 | 4thX14 | 59 | 4thX46 | | |
| 28 | 4thX15 | 60 | 4thX47 | | |
| 29 | 4thX16 | 61 | 4thX48 | | |
| 30 | 4thX17 | 62 | 4thX49 | | |
| 31 | 4thX18 | 63 | 4thX50 | | |

table#16
Feedback Level (Reverb, Delay type, Flanger type)

| Data | Value (%) | Data | Value (%) | Data | Value (%) |
|------|--------------|------|--------------|------|-------------|
| 1 | -99.20654297 | 44 | -31.49414063 | 87 | 36.21826172 |
| 2 | -97.63183594 | 45 | -29.91943359 | 88 | 37.79296875 |
| 3 | -96.05712891 | 46 | -28.34472656 | 89 | 39.36767578 |
| 4 | -94.48242168 | 47 | -26.77001953 | 90 | 40.94238261 |
| 5 | -92.90771484 | 48 | -25.1953125 | 91 | 42.51708984 |
| 6 | -91.33300781 | 49 | -23.62060547 | 92 | 44.09179688 |
| 7 | -89.75830078 | 50 | -22.04589844 | 93 | 45.66650391 |
| 8 | -88.18359375 | 51 | -20.47119141 | 94 | 47.24121094 |
| 9 | -86.60888672 | 52 | -18.89648438 | 95 | 48.81591797 |
| 10 | -85.03417968 | 53 | -17.32177734 | 96 | 50.390625 |
| 11 | -83.45947266 | 54 | -15.74707031 | 97 | 51.96533203 |
| 12 | -81.88476563 | 55 | -14.17236328 | 98 | 53.54003906 |
| 13 | -80.31065399 | 56 | -12.59765625 | 99 | 55.11474609 |
| 14 | -78.73535156 | 57 | -11.02294922 | 100 | 56.68945313 |
| 15 | -77.11604453 | 58 | -9.448242188 | 101 | 58.26416016 |
| 16 | -75.5859375 | 59 | -7.873535156 | 102 | 59.83886719 |
| 17 | -74.01123047 | 60 | -6.298828125 | 103 | 61.41357422 |
| 18 | -72.43652344 | 61 | -4.724121094 | 104 | 62.98828125 |
| 19 | -70.86181641 | 62 | -3.149414063 | 105 | 64.56298828 |
| 20 | -69.28710938 | 63 | -1.574707031 | 106 | 66.13769531 |
| 21 | -67.71240234 | 64 | 0 | 107 | 67.71240234 |
| 22 | -66.13769531 | 65 | 1.574707031 | 108 | 69.28710938 |
| 23 | -64.56650391 | 66 | 3.149414063 | 109 | 70.86181641 |
| 24 | -62.98828125 | 67 | 4.724121094 | 110 | 72.43652344 |
| 25 | -61.41357422 | 68 | 6.298828125 | 111 | 74.01123047 |
| 26 | -59.83886719 | 69 | 7.873535156 | 112 | 75.5859375 |
| 27 | -58.26416016 | 70 | 9.448242188 | 113 | 77.16064453 |
| 28 | -56.68945313 | 71 | 11.02294922 | 114 | 78.73535156 |
| 29 | -55.11474609 | 72 | 12.59765625 | 115 | 80.3105859 |
| 30 | -53.54003906 | 73 | 14.17236328 | 116 | 81.88476563 |
| 31 | -51.96533203 | 74 | 15.74707031 | 117 | 83.45947266 |
| 32 | -50.390625 | 75 | 17.32177734 | 118 | 85.03417968 |
| 33 | -48.81591797 | 76 | 18.89648438 | 119 | 86.6088672 |
| 34 | -47.24121094 | 77 | 20.47119141 | 120 | 88.18359375 |
| 35 | -45.66650391 | 78 | 22.04589844 | 121 | 89.75830078 |
| 36 | -44.09179688 | 79 | 23.62060547 | 122 | 91.33300781 |
| 37 | -42.51708984 | 80 | 25.1953125 | 123 | 92.90771484 |
| 38 | -40.94238281 | 81 | 26.77001953 | 124 | 94.48242188 |
| 39 | -39.36767575 | 82 | 28.34472656 | 125 | 96.05712891 |
| 40 | -37.79296875 | 83 | 29.91943359 | 126 | 97.63183594 |
| 41 | -36.21826172 | 84 | 31.49414063 | 127 | 99.20654297 |
| 42 | -34.64355469 | 85 | 33.06884766 | 128 | 100.0 |
| 43 | -33.06884766 | 86 | 34.64355469 | 129 | |

table#17
Feedback Level (Chorus type)

| Data | Value (%) | Data | Value (%) | Data | |
| --- | --- | --- | --- | --- | --- |

table#18
 Level

| Data | dB | Data | dB | Data | dB | Data | dB |
|------|--------|------|--------|------|--------|------|-------|
| 0 | -∞ | 32 | -23.95 | 64 | -11.90 | 96 | -4.86 |
| 1 | -84.15 | 33 | -23.41 | 65 | -11.64 | 97 | -4.68 |
| 2 | -72.11 | 34 | -22.89 | 66 | -11.37 | 98 | -4.50 |
| 3 | -65.07 | 35 | -22.39 | 67 | -11.11 | 99 | -4.33 |
| 4 | -60.07 | 36 | -21.90 | 68 | -10.85 | 100 | -4.15 |
| 5 | -56.19 | 37 | -21.42 | 69 | -10.60 | 101 | -3.98 |
| 6 | -53.03 | 38 | -20.96 | 70 | -10.35 | 102 | -3.81 |
| 7 | -50.35 | 39 | -20.51 | 71 | -10.10 | 103 | -3.64 |
| 8 | -48.03 | 40 | -20.07 | 72 | -9.86 | 104 | -3.47 |
| 9 | -45.98 | 41 | -19.64 | 73 | -9.62 | 105 | -3.30 |
| 10 | -44.15 | 42 | -19.22 | 74 | -9.38 | 106 | -3.14 |
| 11 | -42.50 | 43 | -18.81 | 75 | -9.15 | 107 | -2.98 |
| 12 | -40.98 | 44 | -18.41 | 76 | -8.92 | 108 | -2.82 |
| 13 | -39.59 | 45 | -18.02 | 77 | -8.69 | 109 | -2.66 |
| 14 | -38.31 | 46 | -17.64 | 78 | -8.47 | 110 | -2.50 |
| 15 | -37.11 | 47 | -17.27 | 79 | -8.25 | 111 | -2.34 |
| 16 | -35.99 | 48 | -16.90 | 80 | -8.03 | 112 | -2.18 |
| 17 | -34.93 | 49 | -16.54 | 81 | -7.81 | 113 | -2.03 |
| 18 | -33.94 | 50 | -16.19 | 82 | -7.60 | 114 | -1.88 |
| 19 | -33.00 | 51 | -15.85 | 83 | -7.39 | 115 | -1.72 |
| 20 | -32.11 | 52 | -15.51 | 84 | -7.18 | 116 | -1.57 |
| 21 | -31.26 | 53 | -15.18 | 85 | -6.98 | 117 | -1.42 |
| 22 | -30.46 | 54 | -14.86 | 86 | -6.77 | 118 | -1.28 |
| 23 | -29.68 | 55 | -14.54 | 87 | -6.57 | 119 | -1.13 |
| 24 | -28.94 | 56 | -14.22 | 88 | -6.37 | 120 | -0.98 |
| 25 | -28.23 | 57 | -13.92 | 89 | -6.18 | 121 | -0.84 |
| 26 | -27.55 | 58 | -13.62 | 90 | -5.98 | 122 | -0.70 |
| 27 | -26.90 | 59 | -13.32 | 91 | -5.79 | 123 | -0.56 |
| 28 | -26.27 | 60 | -13.03 | 92 | -5.60 | 124 | -0.42 |
| 29 | -25.66 | 61 | -12.74 | 93 | -5.41 | 125 | -0.28 |
| 30 | -25.07 | 62 | -12.46 | 94 | -5.23 | 126 | -0.14 |
| 31 | -24.50 | 63 | -12.18 | 95 | -5.04 | 127 | 0.00 |

table#19
 LFO Depth

| Data | Value (%) |
|------|-----------|------|-----------|------|-----------|------|-----------|
| 0 | 0.00 | 32 | 25.20 | 64 | 50.39 | 96 | 75.59 |
| 1 | 0.78 | 33 | 25.98 | 65 | 51.17 | 97 | 76.37 |
| 2 | 1.56 | 34 | 26.76 | 66 | 51.95 | 98 | 77.15 |
| 3 | 2.34 | 35 | 27.54 | 67 | 52.73 | 99 | 77.93 |
| 4 | 3.13 | 36 | 28.32 | 68 | 53.52 | 100 | 78.71 |
| 5 | 3.91 | 37 | 29.10 | 69 | 54.30 | 101 | 79.49 |
| 6 | 4.69 | 38 | 29.88 | 70 | 55.08 | 102 | 80.27 |
| 7 | 5.47 | 39 | 30.66 | 71 | 55.86 | 103 | 81.05 |
| 8 | 6.25 | 40 | 31.45 | 72 | 56.64 | 104 | 81.84 |
| 9 | 7.03 | 41 | 32.23 | 73 | 57.42 | 105 | 82.62 |
| 10 | 7.81 | 42 | 33.01 | 74 | 58.20 | 106 | 83.40 |
| 11 | 8.59 | 43 | 33.79 | 75 | 58.98 | 107 | 84.18 |
| 12 | 9.38 | 44 | 34.57 | 76 | 59.77 | 108 | 84.96 |
| 13 | 10.16 | 45 | 35.35 | 77 | 60.55 | 109 | 85.74 |
| 14 | 10.94 | 46 | 36.13 | 78 | 61.33 | 110 | 86.52 |
| 15 | 11.72 | 47 | 36.91 | 79 | 62.11 | 111 | 87.30 |
| 16 | 12.50 | 48 | 37.70 | 80 | 62.89 | 112 | 88.09 |
| 17 | 13.28 | 49 | 38.48 | 81 | 63.67 | 113 | 88.87 |
| 18 | 14.06 | 50 | 39.26 | 82 | 64.45 | 114 | 89.65 |
| 19 | 14.84 | 51 | 40.04 | 83 | 65.23 | 115 | 90.43 |
| 20 | 15.63 | 52 | 40.82 | 84 | 66.02 | 116 | 91.21 |
| 21 | 16.41 | 53 | 41.60 | 85 | 66.80 | 117 | 91.99 |
| 22 | 17.19 | 54 | 42.38 | 86 | 67.58 | 118 | 92.77 |
| 23 | 17.97 | 55 | 43.16 | 87 | 68.36 | 119 | 93.55 |
| 24 | 18.75 | 56 | 43.95 | 88 | 69.14 | 120 | 94.34 |
| 25 | 19.53 | 57 | 44.73 | 89 | 69.92 | 121 | 95.12 |
| 26 | 20.31 | 58 | 45.51 | 90 | 70.70 | 122 | 95.90 |
| 27 | 21.09 | 59 | 46.29 | 91 | 71.48 | 123 | 96.68 |
| 28 | 21.88 | 60 | 47.07 | 92 | 72.27 | 124 | 97.46 |
| 29 | 22.66 | 61 | 47.85 | 93 | 73.05 | 125 | 98.24 |
| 30 | 23.44 | 62 | 48.63 | 94 | 73.83 | 126 | 99.02 |
| 31 | 24.22 | 63 | 49.41 | 95 | 74.61 | 127 | 100.00 |

table#20
 Dyna Attack Time (ms)

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|-------|
| 0 | 0.3 | 32 | 54.0 | 64 | 112 | 96 | 170 |
| 1 | 0.9 | 33 | 56.0 | 65 | 114 | 97 | 172 |
| 2 | 1.8 | 34 | 58.0 | 66 | 116 | 98 | 174 |
| 3 | 2.7 | 35 | 60.0 | 67 | 118 | 99 | 176 |
| 4 | 3.6 | 36 | 61.0 | 68 | 120 | 100 | 178 |
| 5 | 4.4 | 37 | 63.0 | 69 | 121 | 101 | 180 |
| 6 | 7.2 | 38 | 65.0 | 70 | 123 | 102 | 181 |
| 7 | 9.0 | 39 | 67.0 | 71 | 125 | 103 | 183 |
| 8 | 10.0 | 40 | 69.0 | 72 | 127 | 104 | 185 |
| 9 | 12.0 | 41 | 70.0 | 73 | 129 | 105 | 187 |
| 10 | 14.0 | 42 | 72.0 | 74 | 130 | 106 | 189 |
| 11 | 16.0 | 43 | 74.0 | 75 | 132 | 107 | 190 |
| 12 | 18.0 | 44 | 76.0 | 76 | 134 | 108 | 192 |
| 13 | 20.0 | 45 | 78.0 | 77 | 136 | 109 | 194 |
| 14 | 21.0 | 46 | 80.0 | 78 | 138 | 110 | 196 |
| 15 | 23.0 | 47 | 81.0 | 79 | 140 | 111 | 198 |
| 16 | 25.0 | 48 | 83.0 | 80 | 141 | 112 | 200 |
| 17 | 27.0 | 49 | 85.0 | 81 | 143 | 113 | 201 |
| 18 | 29.0 | 50 | 87.0 | 82 | 145 | 114 | 203 |
| 19 | 30.0 | 51 | 89.0 | 83 | 147 | 115 | 205 |
| 20 | 32.0 | 52 | 90.0 | 84 | 149 | 116 | 207 |
| 21 | 34.0 | 53 | 92.0 | 85 | 150 | 117 | 209 |
| 22 | 36.0 | 54 | 94.0 | 86 | 152 | 118 | 210 |
| 23 | 38.0 | 55 | 96.0 | 87 | 154 | 119 | 212 |
| 24 | 40.0 | 56 | 98.0 | 88 | 156 | 120 | 214 |
| 25 | 41.0 | 57 | 100.0 | 89 | 158 | 121 | 216 |
| 26 | 43.0 | 58 | 101.0 | 90 | 160 | 122 | 218 |
| 27 | 45.0 | 59 | 103.0 | 91 | 161 | 123 | 220 |
| 28 | 47.0 | 60 | 105.0 | 92 | 163 | 124 | 221 |
| 29 | 49.0 | 61 | 107.0 | 93 | 165 | 125 | 223 |
| 30 | 50.0 | 62 | 109.0 | 94 | 167 | 126 | 225 |
| 31 | 52.0 | 63 | 110.0 | 95 | 169 | 127 | 227 |

table#22
 Ring Mod Carrier Freq Course (Hz)

| Data | Value | Data | Value | Data | Value | Data | Value |
|------|-------|------|-------|------|-------|------|--------|
| 0 | 0.7 | 32 | 25.6 | 64 | 151.4 | 96 | 895.0 |
| 1 | 1.3 | 33 | 26.9 | 65 | 160.2 | 97 | 946.1 |
| 2 | 2.0 | 34 | 28.9 | 66 | 169.6 | 98 | 1000.7 |
| 3 | 2.7 | 35 | 30.3 | 67 | 179.0 | 99 | 1057.2 |
| 4 | 3.4 | 36 | 32.3 | 68 | 189.1 | 100 | 1117.7 |
| 5 | 4.0 | 37 | 33.6 | 69 | 199.9 | 101 | 1181.7 |
| 6 | 4.7 | 38 | 35.7 | 70 | 211.3 | 102 | 1249.0 |
| 7 | 5.4 | 39 | 37.7 | 71 | 223.4 | 103 | 1320.3 |
| 8 | 6.1 | 40 | 39.7 | 72 | 236.2 | 104 | 1395.7 |
| 9 | 6.7 | 41 | 42.4 | 73 | 249.7 | 105 | 1475.1 |
| 10 | 7.4 | 42 | 44.4 | 74 | 263.8 | 106 | 1559.2 |
| 11 | 8.1 | 43 | 47.1 | 75 | 279.3 | 107 | 1648.7 |
| 12 | 8.7 | 44 | 49.8 | 76 | 294.7 | 108 | 1742.9 |
| 13 | 9.4 | 45 | 52.5 | 77 | 311.6 | 109 | 1841.8 |
| 14 | 10.1 | 46 | 55.9 | 78 | 329.7 | 110 | 1947.5 |
| 15 | 10.8 | 47 | 59.2 | 79 | 348.6 | 111 | 2058.5 |
| 16 | 11.4 | 48 | 62.6 | 80 | 368.1 | 112 | 2175.6 |
| 17 | 12.1 | 49 | 65.9 | 81 | 389.6 | 113 | 2300.1 |
| 18 | 12.8 | 50 | 70.0 | 82 | 411.8 | 114 | 2431.3 |
| 19 | 13.5 | 51 | 73.3 | 83 | 435.4 | 115 | 2569.9 |
| 20 | 14.1 | 52 | 78.1 | 84 | 459.6 | 116 | 2716.6 |
| 21 | 14.8 | 53 | 82.1 | 85 | 485.9 | 117 | 2871.4 |
| 22 | 15.5 | 54 | 86.8 | 86 | 514.1 | 118 | 3035.6 |
| 23 | 16.2 | 55 | 92.2 | 87 | 543.1 | 119 | 3208.5 |
| 24 | 16.8 | 56 | 96.9 | 88 | 574.0 | 120 | 3391.6 |
| 25 | 17.5 | 57 | 103.0 | 89 | 607.0 | 121 | 3585.4 |
| 26 | 18.2 | 58 | 108.3 | 90 | 642.0 | 122 | 3790.0 |
| 27 | 19.5 | 59 | 115.1 | 91 | 678.3 | 123 | 4006.6 |
| 28 | 20.9 | 60 | 121.1 | 92 | 717.3 | 124 | 4234.8 |
| 29 | 21.5 | 61 | 128.5 | 93 | 757.7 | 125 | 4477.0 |
| 30 | 22.9 | 62 | 135.9 | 94 | 801.5 | 126 | 4732.1 |
| 31 | 24.2 | 63 | 143.3 | 95 | 847.2 | 127 | 5002.6 |

table#23
 V-Flanger Delay Offset

| Data | Value | Data | Value |
|------|-------|------|-------|
| 0 | 0.1 | 70 | 6.4 |
| 1 | 0.1 | 71 | 6.7 |
| 2 | 0.1 | 72 | 7.0 |
| 3 | 0.2 | 73 | 7.4 |
| 4 | 0.2 | 74 | 7.7 |
| 5 | 0.2 | 75 | 8.1 |
| 6 | 0.2 | 76 | 8.5 |
| 7 | 0.2 | 77 | 9.0 |
| 8 | 0.3 | 78 | 9.4 |
| 9 | 0.3 | 79 | |

MIDI Data Format

MIDI-Datenformat

Format des données MIDI

Formato de datos MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix.

Also, "n" can freely be defined as any whole number. To enter data/values, refer to the table below.

| decimal | hexadecimal | binary |
|---------|-------------|-----------|
| 0 | 00 | 0000 0000 |
| 1 | 01 | 0000 0001 |
| 2 | 02 | 0000 0010 |
| 3 | 03 | 0000 0011 |
| 4 | 04 | 0000 0100 |
| 5 | 05 | 0000 0101 |
| 6 | 06 | 0000 0110 |
| 7 | 07 | 0000 0111 |
| 8 | 08 | 0000 1000 |
| 9 | 09 | 0000 1001 |
| 10 | 0A | 0000 1010 |
| 11 | 0B | 0000 1011 |
| 12 | 0C | 0000 1100 |
| 13 | 0D | 0000 1101 |
| 14 | 0E | 0000 1110 |
| 15 | 0F | 0000 1111 |
| 16 | 10 | 0001 0000 |
| 17 | 11 | 0001 0001 |
| 18 | 12 | 0001 0010 |
| 19 | 13 | 0001 0011 |
| 20 | 14 | 0001 0100 |
| 21 | 15 | 0001 0101 |
| 22 | 16 | 0001 0110 |
| 23 | 17 | 0001 0111 |
| 24 | 18 | 0001 1000 |
| 25 | 19 | 0001 1001 |
| 26 | 1A | 0001 1010 |
| 27 | 1B | 0001 1011 |
| 28 | 1C | 0001 1100 |
| 29 | 1D | 0001 1101 |
| 30 | 1E | 0001 1110 |
| 31 | 1F | 0001 1111 |

| decimal | hexadecimal | binary |
|---------|-------------|-----------|
| 32 | 20 | 0010 0000 |
| 33 | 21 | 0010 0001 |
| 34 | 22 | 0010 0010 |
| 35 | 23 | 0010 0011 |
| 36 | 24 | 0010 0100 |
| 37 | 25 | 0010 0101 |
| 38 | 26 | 0010 0110 |
| 39 | 27 | 0010 0111 |
| 40 | 28 | 0010 1000 |
| 41 | 29 | 0010 1001 |
| 42 | 2A | 0010 1010 |
| 43 | 2B | 0010 1011 |
| 44 | 2C | 0010 1100 |
| 45 | 2D | 0010 1101 |
| 46 | 2E | 0010 1110 |
| 47 | 2F | 0010 1111 |
| 48 | 30 | 0011 0000 |
| 49 | 31 | 0011 0001 |
| 50 | 32 | 0011 0010 |
| 51 | 33 | 0011 0011 |
| 52 | 34 | 0011 0100 |
| 53 | 35 | 0011 0101 |
| 54 | 36 | 0011 0110 |
| 55 | 37 | 0011 0111 |
| 56 | 38 | 0011 1000 |
| 57 | 39 | 0011 1001 |
| 58 | 3A | 0011 1010 |
| 59 | 3B | 0011 1011 |
| 60 | 3C | 0011 1100 |
| 61 | 3D | 0011 1101 |
| 62 | 3E | 0011 1110 |
| 63 | 3F | 0011 1111 |

| decimal | hexadecimal | binary |
|---------|-------------|-----------|
| 64 | 40 | 0100 0000 |
| 65 | 41 | 0100 0001 |
| 66 | 42 | 0100 0010 |
| 67 | 43 | 0100 0011 |
| 68 | 44 | 0100 0100 |
| 69 | 45 | 0100 0101 |
| 70 | 46 | 0100 0110 |
| 71 | 47 | 0100 0111 |
| 72 | 48 | 0100 1000 |
| 73 | 49 | 0100 1001 |
| 74 | 4A | 0100 1010 |
| 75 | 4B | 0100 1011 |
| 76 | 4C | 0100 1100 |
| 77 | 4D | 0100 1101 |
| 78 | 4E | 0100 1110 |
| 79 | 4F | 0100 1111 |
| 80 | 50 | 0101 0000 |
| 81 | 51 | 0101 0001 |
| 82 | 52 | 0101 0010 |
| 83 | 53 | 0101 0011 |
| 84 | 54 | 0101 0100 |
| 85 | 55 | 0101 0101 |
| 86 | 56 | 0101 0110 |
| 87 | 57 | 0101 0111 |
| 88 | 58 | 0101 1000 |
| 89 | 59 | 0101 1001 |
| 90 | 5A | 0101 1010 |
| 91 | 5B | 0101 1011 |
| 92 | 5C | 0101 1100 |
| 93 | 5D | 0101 1101 |
| 94 | 5E | 0101 1110 |
| 95 | 5F | 0101 1111 |

| decimal | hexadecimal | binary |
|---------|-------------|-----------|
| 96 | 60 | 0110 0000 |
| 97 | 61 | 0110 0001 |
| 98 | 62 | 0110 0010 |
| 99 | 63 | 0110 0011 |
| 100 | 64 | 0110 0100 |
| 101 | 65 | 0110 0101 |
| 102 | 66 | 0110 0110 |
| 103 | 67 | 0110 0111 |
| 104 | 68 | 0110 1000 |
| 105 | 69 | 0110 1001 |
| 106 | 6A | 0110 1010 |
| 107 | 6B | 0110 1011 |
| 108 | 6C | 0110 1100 |
| 109 | 6D | 0110 1101 |
| 110 | 6E | 0110 1110 |
| 111 | 6F | 0110 1111 |
| 112 | 70 | 0111 0000 |
| 113 | 71 | 0111 0001 |
| 114 | 72 | 0111 0010 |
| 115 | 73 | 0111 0011 |
| 116 | 74 | 0111 0100 |
| 117 | 75 | 0111 0101 |
| 118 | 76 | 0111 0110 |
| 119 | 77 | 0111 0111 |
| 120 | 78 | 0111 1000 |
| 121 | 79 | 0111 1001 |
| 122 | 7A | 0111 1010 |
| 123 | 7B | 0111 1011 |
| 124 | 7C | 0111 1100 |
| 125 | 7D | 0111 1101 |
| 126 | 7E | 0111 1110 |
| 127 | 7F | 0111 1111 |

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.

- aaH (hexadecimal)/0aaaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

Preset Voice List

When you specify a program change as a number in the range of 0-127, specify a number that is one less than the program number listed below. For example, to specify program number 128, you would specify program change 127.

| Voice group | Voice name | Bank MSB | Bank LSB | Program Change (1-128) |
|--------------|------------------|----------|----------|------------------------|
| GRANDPIANO1 | GrandPiano1 | 0 | 122 | 1 |
| | MellowPiano | 0 | 123 | 1 |
| | RockPiano | 0 | 122 | 3 |
| | HonkyTonkPiano | 0 | 122 | 4 |
| GRANDPIANO2 | GrandPiano2 | 0 | 112 | 1 |
| | BrightPiano | 0 | 112 | 2 |
| E.PIANO1 | E.Piano1 | 0 | 122 | 6 |
| | SynthPiano | 0 | 122 | 89 |
| E.PIANO2 | E.Piano2 | 0 | 122 | 5 |
| | Vintage E.Piano | 0 | 123 | 5 |
| HARPSICHORD | Harpsichord8' | 0 | 122 | 7 |
| | Harpsichord8'+4' | 0 | 123 | 7 |
| E.CLAVICHORD | E.Clavichord | 0 | 122 | 8 |
| | Wah Clavi. | 0 | 123 | 8 |
| VIBRAPHONE | Vibraphone | 0 | 122 | 12 |
| | Marimba | 0 | 122 | 13 |
| | Celesta | 0 | 122 | 9 |
| GUITAR | NylonGuitar | 0 | 122 | 25 |
| | SteelGuitar | 0 | 122 | 26 |

| Voice group | Voice name | Bank MSB | Bank LSB | Program Change (1-128) |
|-------------|--------------------|----------|----------|------------------------|
| CHURCHORGAN | PipeOrganPrincipal | 0 | 123 | 20 |
| | PipeOrganTutti | 0 | 122 | 20 |
| | PipeOrganFlute1 | 0 | 124 | 20 |
| | PipeOrganFlute2 | 0 | 125 | 20 |
| JAZZORGAN | JazzOrgan | 0 | 122 | 17 |
| | RotaryOrgan | 0 | 124 | 17 |
| STRINGS | MellowOrgan | 0 | 125 | 17 |
| | Strings | 0 | 122 | 49 |
| | SynthStrings | 0 | 122 | 51 |
| CHOIR | SlowStrings | 0 | 122 | 50 |
| | Choir | 0 | 122 | 53 |
| | SlowChoir | 0 | 123 | 53 |
| SYNTH.PAD | Scat | 0 | 122 | 54 |
| | SynthPad1 | 0 | 122 | 90 |
| WOOD BASS | SynthPad2 | 0 | 123 | 89 |
| | WoodBass | 0 | 122 | 33 |
| | Bass&Cymbal | 0 | 124 | 33 |
| E.BASS | ElectricBass | 0 | 122 | 34 |
| | FretlessBass | 0 | 122 | 36 |

MIDI CHANNEL MESSAGE (1)

| MIDI Events | Status byte | 1st Data byte | | | 2nd Data byte | | | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | |
|---------------------|-------------------------|-----------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------|-----------------------------------|-------------------|----------------------------|----------|--------------------------------|------|------|------|-----|---------------------|
| | | Status | Data (Hex) | Parameter | Data | (Hex) | Parameter | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel |
| Key Off [GM1] [GM2] | 8nH (n: Channel Number) | kk | | Key no. (0-127) | vv | | Velocity (0-127) | ○ | ○ | ○ | × | ○ | × | ○ | × | × |
| Key On [GM1] [GM2] | 9nH (n: Channel Number) | kk | | Key no. (0-127) | vv | | Key On: vv=1-127 Key Off: vv=0 | ○ | ○ | ○ | ○ (Keyboard) | ○ | × | ○ | × | ○ |
| Control Change | BnH | 0 (00H) | Bank Select MSB [GM2] | 0 (00H) 64 (40H) 118 (76H) 119 (77H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH) | Normal SFX voice GS Rhythm GS Normal GM2 Rhythm GM2 Normal SFX kit Drum kit | ○ | ○ | ○ (Main) | ○ (Voice) | ○ | × | ○ | ○ | ○ | ○ | |
| | 1 (01H) | Modulation [GM1] [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 5 (05H) | Portamento Time [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | × | ○ | ○ | × | |
| | 6 (06H) | Data Entry MSB [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 7 (07H) | Main Volume [GM1] [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 10 (0AH) | Panpot [GM1] [GM2] | 0-127 (00H...7FH) | L64...C...R63 | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 11 (0BH) | Expression [GM1] [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Pedal) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 32 (20H) | Bank Select LSB [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 38 (26H) | Data Entry LSB [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | × | ○ | ○ | |
| | 64 (40H) | Sustain (Damper) [GM1] [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Pedal) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 65 (41H) | Portamento [GM2] | 0-127 (00H...7FH) | 0..63, 64...127 (OFF, ON) | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 66 (42H) | Sostenuto [GM2] | 0-127 (00H...7FH) | 0..63, 64...127 (OFF, ON) | ○ | ○ | ○ (All manually played parts) | ○ (Pedal) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 67 (43H) | Soft Pedal [GM2] | 0-127 (00H...7FH) | 0..63, 64...127 (OFF, ON) | ○ | ○ | ○ (All manually played parts) | ○ (Pedal) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 71 (47H) | Harmonic Content [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 72 (48H) | Release Time [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 73 (49H) | Attack Time [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 74 (4AH) | Brightness [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 75 (4BH) | Decay Time [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 76 (4CH) | Vibrate Rate [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 77 (4DH) | Vibrate Depth [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 78 (4EH) | Vibrate Delay [GM2] | 0-127 (00H...7FH) | -64...0...+63 | ○ | ○ | ○ (All manually played parts) | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | 84 (54H) | Portamento Control | 0-127 (00H...7FH) | Key no. (0-127) | ○ | ○ | × | × | ○ | × | ○ | ○ | ○ | × | × | |
| | 91 (5BH) | Effect1 Depth (Reverb Send Level) [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 93 (5DH) | Effect3 Depth (Chorus Send Level) [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 94 (5EH) | Effect4 Depth (Variation Send Level) | 0-127 (00H...7FH) | Data | ○ | ○ | ○ | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 96 (60H) | RPN Increment | - - | The data byte is ignored. | ○ | ○ | × | × | ○ | × | ○ | × | ○ | × | × | |
| | 97 (61H) | RPN Decrement | - - | The data byte is ignored. | ○ | ○ | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | 98 (62H) | NRPN LSB | 0-127 (00H...7FH) | Data | ○ | ○ | × | × | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 99 (63H) | NRPN MSB | 0-127 (00H...7FH) | Data | ○ | ○ | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | 100 (64H) | RPN LSB [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 101 (65H) | RPN MSB [GM2] | 0-127 (00H...7FH) | Data | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ | ○ | ○ | |
| | 120 (78H) | All Sound Off [GM2] | 0 (00H) | Data | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | ○ | ○ | × | |
| | 121 (79H) | Reset All Controllers [GM1] [GM2] | 0 (00H) | Data | ○ | × | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | 122 (7AH) | Local Control | 0 (00H) 127 (7FH) | OFF ON | ○ | | | ○ | ○ | ○ | × | ○ | × | ○ | ○ | |

| | | [MIDI (CLP)] | | | | | | [Internal Sequencer] | | | | | |
|---------------------------------|-------------------------|----------------|--------------------------|------------------|-----------|------|----------------------------|----------------------------------|--------------------------------|------|------|------|-----|
| MIDI Events | Status | 1st Data byte | | 2nd Data byte | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REC |
| | | Data (Hex) | Parameter | Data (Hex) | Parameter | | | | | | | PLAY | REW |
| Mode Message | BnH (n: Channel Number) | 123 (7BH) | All Note Off [GM1] [GM2] | 0 (00H) | Data | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | × |
| | | 124 (7CH) | Omni Off [GM2] | 0 (00H) | Data | ○ | × | × | × | × | × | × | × |
| | | 125 (7DH) | Omni On [GM2] | 0 (00H) | Data | ○ | × | × | × | × | × | × | × |
| | | 126 (7EH) | Mono [GM2] | 0-16 (00H...10H) | Data | ○ | × | × | × | ○ | × | ○ | × |
| | | 127 (7FH) | Poly [GM2] | 0 (00H) | Data | ○ | × | × | × | ○ | × | ○ | × |
| Program Change [GM1] [GM2] | CnH (n: Channel Number) | pp (00H...7FH) | Voice number (0-127) | - - | - | ○ | ○ | ○ (Main) | ○ (Voice) | ○ | × | ○ | ○ |
| Channel After Touch [GM1] [GM2] | DnH (n: Channel Number) | vv (00H...7FH) | Data | - - | - | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | × |
| Polyphonic After Touch | AnH (n: Channel Number) | kk (00H...7FH) | Key no. (0-127) | vv (00H...7FH) | Data | ○ | × | × | × | ○ | × | ○ | × |
| Pitch Bend Change [GM1] [GM2] | EnH (n: Channel Number) | cc (00H...7FH) | LSB | dd (00H...7FH) | MSB | ○ | ○ | ○ (All manually played parts) | ○ (Pedal) | ○ | × | ○ | ○ |
| Realtime Message | F8H MIDI Clock | - | - | - | - | X | | ○ | | - | - | × | |
| | FAH Start | - | - | - | - | ○ | | ○ | | - | - | × | |
| | FBH Continue | - | - | - | - | X | | X | | - | - | × | |
| | FCH Stop | - | - | - | - | ○ | | ○ | | - | - | × | |
| | FDH Active Sens [GM2] | - | - | - | - | ○ | | ○ | | - | - | × | |
| FEH System Reset | - | - | - | - | - | X | | X | | - | - | × | |

MIDI CHANNEL MESSAGE (2)

Parameters controlled by NRPN (Non-Registered Parameter Numbers)

| | | | | Parameter | Data Range | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | |
|-----|-----|------------|---|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|----------|--------------------------------|------|------|------|-----|---------------------|
| MSB | LSB | Data Entry | | | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel |
| 01H | 08H | mmH | - | Vibrato Rate | mm: 00H-40H-7FH (-64...0...+63) | ○ | ○ | × | × | ○ | × | ○ | ○ | × |
| 01H | 09H | mmH | - | Vibrato Depth | mm: 00H-40H-7FH (-64...0...+63) | ○ | ○ | × | × | ○ | × | ○ | ○ | × |
| 01H | 0AH | mmH | - | Vibrato Delay | mm: 00H-40H-7FH (-64...0...+63) | ○ | ○ | × | × | ○ | × | ○ | ○ | × |
| 01H | 20H | mmH | - | Low Pass Filter Cutoff Frequency | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 21H | mmH | - | Low Pass Filter Resonance | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 30H | mmH | - | EQ BASS | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 31H | mmH | - | EQ TREBLE | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 34H | mmH | - | EQ BASS Frequency | mm: 04H-28H (32...2.0kHz) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 35H | mmH | - | EQ TREBLE Frequency | mm: 1CH-3AH (500...16.0kHz) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 63H | mmH | - | EG Attack Time | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 01H | 64H | mmH | - | EG Decay Time | mm: 00H-40H-7FH (-64...0...+63) | ○ | ○ | × | × | ○ | × | ○ | ○ | × |
| 01H | 66H | mmH | - | EG Release | mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 14H | rrH | mmH | - | Drum Low Pass Filter Cutoff Frequency | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | × | × |
| 15H | rrH | mmH | - | Drum Low Pass Filter Resonance | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | × | × |
| 16H | rrH | mmH | - | Drum EG Attack Rate | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 17H | rrH | mmH | - | Drum EG Decay Rate | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | × | × |
| 18H | rrH | mmH | - | Drum Pitch Coarse | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | × | × |
| 19H | rrH | mmH | - | Drum Pitch Fine | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 1AH | rrH | mmH | - | Drum Level | rr: drum instrument note number mm: 00H-7FH (0...127) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 1CH | rrH | mmH | - | Drum Pan | rr: drum instrument note number mm: 00H-01H-40H-7FH (RND, L63...C...R63) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 1DH | rrH | mmH | - | Drum Reverb Send Level | rr: drum instrument note number mm: 00H-7FH (0...127) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 1EH | rrH | mmH | - | Drum Chorus Send Level | rr: drum instrument note number mm: 00H-7FH (0...127) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 1FH | rrH | mmH | - | Drum Variation Send Level | rr: drum instrument note number mm: 00H-7FH (0...127) (Variation Connection = SYSTEM) mm: 00H, 01H-7FH (OFF, ON) (Variation Connection = INSERTION) | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 24H | rrH | mmH | - | Drum HPF Cutoff Frequency | rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63) | × | × | × | × | × | × | × | × | × |
| 30H | rrH | mmH | - | Drum EQ Bass Gain | rr: drum instrument note number mm: 00H-7FH (0...127) | × | × | × | × | × | × | × | × | × |
| 31H | rrH | mmH | - | Drum EQ Treble Gain | rr: drum instrument note number mm: 00H-7FH (0...127) | × | × | × | × | × | × | × | × | × |
| 34H | rrH | mmH | - | Drum EQ Bass Frequency | rr: drum instrument note number mm: 04H-28H (32...2.0kHz) | × | × | × | × | × | × | × | × | × |
| 35H | rrH | mmH | - | Drum EQ Treble Frequency | rr: drum instrument note number mm: 1CH-3AH (500...16.0kHz) | × | × | × | × | × | × | × | × | × |
| 40H | rrH | mmH | - | Drum VELOCITY PITCH SENS. | rr: drum instrument note number mm: 00H-OFH (0...15) | × | × | × | × | × | × | × | × | × |
| 41H | rrH | mmH | - | Drum VELOCITY LPF CUTOFF SENS. | rr: drum instrument note number mm: 00H-OFH (0...15) | × | × | × | × | × | × | × | × | × |

NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.

Data Entry LSB: Ignored.

Parameters controlled by RPN (Registered Parameter Numbers)

| | | | | Parameter | Data Range | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | |
|-----|-----|------------|-----|------------------------------------|--------------------------------------------------------------------------------------|--------------|----------------------------|----------------------------------|--------------------------------|------|------|------|-----|---------------------|
| MSB | LSB | Data Entry | | | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel |
| 00H | 00H | mmH | - | Pitch Bend Sensitivity [GM1] [GM2] | mm: 00H-18H (0...+24[semitones]) | ○ | ○ | ○ (All manually played parts) | ○ (Function) | ○ | × | ○ | ○ | ○ |
| 00H | 01H | mmH | lIH | Fine Tune [GM1] [GM2] | mm: 00H 00H -100[cent] ... mm: 40H 00H 0[cent] ... mm: 7FH 7FH 100[cent] | ○ | ○ | ○ (All manually played parts) | ○ (Voice Setting) | ○ | × | ○ | ○ | ○ |
| 00H | 02H | mmH | - | Coarse Tune [GM1] [GM2] | mm: 28H-40H-58H (-24...0...+24[semitones]) | ○ | ○ | ○ (All manually played parts) | × | ○ | × | ○ | ○ | × |
| 00H | 05H | mmH | lIH | Modulation Sensitivity [GM2] | mm: Specified in semitone steps lI: Specified in 100/128 cent steps | ○ | × | × | × | ○ | × | ○ | × | × |
| 7FH | 7FH | - | - | Null [GM2] | - | ○ | × | × | × | ○ | × | ○ | × | × |

MIDI PARAMETER CHANGE TABLE

- * Not Received when Receive Parameter SysEx is set to off.
- * Not transmitted when Transmit Parameter SysEx is set to on.

MIDI Parameter Change table (XG SYSTEM)

| | | | | Parameter | Description | XG Default (H) | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | [Internal Sequencer] | |
|-------------|----|----------|----------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------|-----------------|----------|------------------------------------|------|------|----------------------|-----|
| Address (H) | | Size (H) | Data (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 00 | 00 | 00 | 4 | MASTER TUNE | -102.4...0...+102.3[cent] 1st bit3-0→bit15-12 2nd bit3-0→bit11-8 3rd bit3-0→bit7-4 4th bit3-0→bit3-0 | *Panel setting value | ○ | | | X | ○ | X | ○ | × |
| | | 01 | 00-OF | | | | | | | | | | | × |
| | | 02 | 00-OF | | | | | | | | | | | × |
| | | 03 | 00-OF | | | | | | | | | | | × |
| | | 04 | 1 | MASTER VOLUME | 0...127 | 7F | ○ | × | × | × | ○ | X | ○ | ○ |
| | | 05 | 1 | MASTER ATTENUATOR | 0...127 | 00 | × | × | × | × | × | × | × | × |
| | | 06 | 1 | TRANSPOSE | -24...0...+24[semitones] | 40 | ○ | × | × | × | ○ | X | ○ | ○ |
| | | 7D | 1 | N | DRUM SETUP RESET | N: Drum setup number | — | ○ | × | × | ○ | X | ○ | × |
| | | 7E | 1 | 00 | XG SYSTEM ON | 00=XG system ON | — | ○ | × | × | ○ | X | ○ | × |
| | | 7F | 1 | 00 | ALL PARAMETER RESET | 00=ON | — | ○ | × | × | ○ | X | ○ | × |

TOTAL SIZE 07

MIDI Parameter Change table (SYSTEM INFORMATION)

| | | | | Parameter | Description | XG Default (H) | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | [Internal Sequencer] | |
|-------------|-----|----------|----------|-----------|---------------|----------------------------|-------------------------------------------------|-----------------|----------|------------------------------------|------|------|----------------------|-----|
| Address (H) | | Size (H) | Data (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 01 | 00 | 00 | E | 20-7F | Model Name 1 | 32...127 (ASCII CHARACTER) | — | — | — | × | ○ | X | ○ | × |
| | ... | ... | ... | 20-7F | Model Name 14 | 32...127 (ASCII CHARACTER) | | | | | | | | |
| | OE | 1 | | NOT USED | | | | | | | | | | |
| | OF | 1 | | NOT USED | | | | | | | | | | |

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

| | | | | Parameter | Description | XG Default (H) | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | [Internal Sequencer] | |
|-------------|----|----------|----------|---------------------|----------------------------------|------------------------|-------------------------------------------------|--------------------------|----------|------------------------------------|------|------|----------------------|-----|
| Address (H) | | Size (H) | Data (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 02 | 01 | 00 | 2 | REVERB TYPE MSB | Refer to Effect Parameter List | 01(=HALL1) 00 | ○ | | | ○ (Voice Setting) | ○ | X | ○ | ○ |
| | | | | REVERB TYPE LSB | | | | | | | | | | × |
| | 02 | 1 | 00-7F | REVERB PARAMETER 1 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 03 | 1 | 00-7F | REVERB PARAMETER 2 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 04 | 1 | 00-7F | REVERB PARAMETER 3 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 05 | 1 | 00-7F | REVERB PARAMETER 4 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 06 | 1 | 00-7F | REVERB PARAMETER 5 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 07 | 1 | 00-7F | REVERB PARAMETER 6 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 08 | 1 | 00-7F | REVERB PARAMETER 7 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 09 | 1 | 00-7F | REVERB PARAMETER 8 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 0A | 1 | 00-7F | REVERB PARAMETER 9 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 0B | 1 | 00-7F | REVERB PARAMETER 10 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 0C | 1 | 00-7F | REVERB RETURN | ~-dB...0dB...+6dB (0...64...127) | 40 | ○ | | | ○ | ○ | X | ○ | ○ |
| | 0D | 1 | 01-7F | REVERB PAN | L63...C...R63 | 40 | ○ | | | ○ | ○ | X | ○ | ○ |

TOTAL SIZE 0E

| | | | | Parameter | Description | XG Default (H) | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | [Internal Sequencer] | |
|-------------|----|----------|----------|---------------------|--------------------------------|------------------------|-------------------------------------------------|--------------------------|----------|------------------------------------|------|------|----------------------|-----|
| Address (H) | | Size (H) | Data (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 02 | 01 | 10 | 1 | REVERB PARAMETER 11 | Refer to Effect Parameter List | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 11 | 1 | 00-7F | REVERB PARAMETER 12 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 12 | 1 | 00-7F | REVERB PARAMETER 13 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 13 | 1 | 00-7F | REVERB PARAMETER 14 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 14 | 1 | 00-7F | REVERB PARAMETER 15 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |
| | 15 | 1 | 00-7F | REVERB PARAMETER 16 | " | Depends on Reverb Type | ○ | (Depends on Reverb Type) | | × | ○ | X | ○ | ○ |

TOTAL SIZE 06

| | | | | Parameter | Description | XG Default (H) | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | [Internal Sequencer] | |
|-------------|----|----------|----------|--------------------|--------------------------------|------------------------|-------------------------------------------------|--------------------------|----------|------------------------------------|------|------|----------------------|-----|
| Address (H) | | Size (H) | Data (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 02 | 01 | 20 | 2 | CHORUS TYPE MSB | Refer to Effect Parameter List | 01 (=CHORUS1) 00 | ○ | | | ○ (Voice Setting) | ○ | X | ○ | ○ |
| | | | | CHORUS TYPE LSB | | | | | | | | | | ○ |
| | 22 | 1 | 00-7F | CHORUS PARAMETER 1 | " | Depends on Chorus Type | ○ | (Depends on Chorus Type) | | × | ○ | X | ○ | ○ |
| | 23 | 1 | 00-7F | CHORUS PARAMETER 2 | " | Depends on Chorus Type | ○ | (Depends on Chorus Type) | | × | ○ | X | ○ | ○ |

| | | | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | |
|-------------|----|----------|-----------|-----------------------------|-------------------------------|----------------------------------------------------|------|------|------------------------------------|-----|---------------------|------|
| Address (H) | | Size (H) | | | | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | PLAY |
| | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel | |
| | | 24 | 1 | 00-7F CHORUS PARAMETER 3 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 25 | 1 | 00-7F CHORUS PARAMETER 4 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 26 | 1 | 00-7F CHORUS PARAMETER 5 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 27 | 1 | 00-7F CHORUS PARAMETER 6 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 28 | 1 | 00-7F CHORUS PARAMETER 7 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 29 | 1 | 00-7F CHORUS PARAMETER 8 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 2A | 1 | 00-7F CHORUS PARAMETER 9 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 2B | 1 | 00-7F CHORUS PARAMETER 10 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ |
| | | 2C | 1 | 00-7F CHORUS RETURN | -dB...0dB...+6dB (0..64..127) | 40 | ○ | × | ○ | × | ○ | ○ |
| | | 2D | 1 | 01-7F CHORUS PAN | L63..C..R63 | 40 | ○ | × | ○ | × | ○ | ○ |
| | | 2E | 1 | 00-7F SEND CHORUS TO REVERB | -dB...0dB...+6dB (0..64..127) | 00 | ○ | × | ○ | × | ○ | ○ |
| TOTAL SIZE | OF | | | | | | | | | | | |

| 02 | 01 | 30 | 1 | 00-7F CHORUS PARAMETER 11 | Refer to Effect Parameter List | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
|------------|----|----|---|---------------------------|--------------------------------|----------------------------------------------------|---|---|---|---|---|---|---|
| | | 31 | 1 | 00-7F CHORUS PARAMETER 12 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 32 | 1 | 00-7F CHORUS PARAMETER 13 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 33 | 1 | 00-7F CHORUS PARAMETER 14 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 34 | 1 | 00-7F CHORUS PARAMETER 15 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 35 | 1 | 00-7F CHORUS PARAMETER 16 | " | Depends on Chorus Type (Depends on Chorus Type) | ○ | × | ○ | × | ○ | ○ | × |
| TOTAL SIZE | 06 | | | | | | | | | | | | |

| | | | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | | |
|-------------|----|----------|-----------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|----------|--------------------------------|------|------|------|-----|
| Address (H) | | Size (H) | | | | Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 02 | 01 | 40 | 2 | 00-7F VARIATION TYPE MSB 00-7F VARIATION TYPE LSB | Refer to Effect Parameter List " 05 (=DELAY L, C, R) 00 | ○ | × | ○ | × | ○ | × | ○ | × |
| | | 42 | 2 | 00-7F VARIATION PARAMETER 1 MSB 00-7F VARIATION PARAMETER 1 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 44 | 2 | 00-7F VARIATION PARAMETER 2 MSB 00-7F VARIATION PARAMETER 2 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 46 | 2 | 00-7F VARIATION PARAMETER 3 MSB 00-7F VARIATION PARAMETER 3 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 48 | 2 | 00-7F VARIATION PARAMETER 4 MSB 00-7F VARIATION PARAMETER 4 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 4A | 2 | 00-7F VARIATION PARAMETER 5 MSB 00-7F VARIATION PARAMETER 5 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 4C | 2 | 00-7F VARIATION PARAMETER 6 MSB 00-7F VARIATION PARAMETER 6 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 4E | 2 | 00-7F VARIATION PARAMETER 7 MSB 00-7F VARIATION PARAMETER 7 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 50 | 2 | 00-7F VARIATION PARAMETER 8 MSB 00-7F VARIATION PARAMETER 8 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 52 | 2 | 00-7F VARIATION PARAMETER 9 MSB 00-7F VARIATION PARAMETER 9 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 54 | 2 | 00-7F VARIATION PARAMETER 10 MSB 00-7F VARIATION PARAMETER 10 LSB | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 56 | 1 | 00-7F VARIATION RETURN | -dB...0dB...+6dB (0..64..127) | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 57 | 1 | 01-7F VARIATION PAN | L63..C..R63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 58 | 1 | 00-7F SEND VARIATION TO REVERB | -dB...0dB...+6dB (0..64..127) | 00 | ○ | × | ○ | × | ○ | ○ | × |
| | | 59 | 1 | 00-7F SEND VARIATION TO CHORUS | -dB...0dB...+6dB (0..64..127) | 00 | ○ | × | ○ | × | ○ | ○ | × |
| | | 5A | 1 | 00-01 VARIATION CONNECTION | INSERTION_SYSTEM | 00 | ○ | × | ○ | × | ○ | ○ | × |
| | | 5B | 1 | 00-7F VARIATION PART NUMBER | Reception: Part1...16 (0..15) Transmission: Part1...16 (0..15) AD (64) OFF (127) | 7F | ○ | × | ○ | × | ○ | ○ | × |
| | | 5C | 1 | 00-7F MW VARIATION CONTROL DEPTH | -64...0...+63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 5D | 1 | 00-7F BEND VARIATION CONTROL DEPTH | -64...0...+63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 5E | 1 | 00-7F CAT VARIATION CONTROL DEPTH | -64...0...+63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 5F | 1 | 00-7F AC1 VARIATION CONTROL DEPTH | -64...0...+63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| | | 60 | 1 | 00-7F AC2 VARIATION CONTROL DEPTH | -64...0...+63 | 40 | ○ | × | ○ | × | ○ | ○ | × |
| TOTAL SIZE | 21 | | | | | | | | | | | | |

| 02 | 01 | 30 | 1 | 00-7F VARIATION PARAMETER 11 | Refer to Effect Parameter List | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
|------------|----|----|---|------------------------------|--------------------------------|----------------------------------------------------------|---|---|---|---|---|---|---|
| | | 31 | 1 | 00-7F VARIATION PARAMETER 12 | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 32 | 1 | 00-7F VARIATION PARAMETER 13 | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 33 | 1 | 00-7F VARIATION PARAMETER 14 | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 34 | 1 | 00-7F VARIATION PARAMETER 15 | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| | | 35 | 1 | 00-7F VARIATION PARAMETER 16 | " | Depends on Variation Type (Depends on Variation Type) | ○ | × | ○ | × | ○ | ○ | × |
| TOTAL SIZE | 06 | | | | | | | | | | | | |

MIDI Parameter Change table (MULTI EQ)

| Address (H) | Size (H) | Data (H) | Parameter | Description | [MIDI (CLP)] | | | [Internal Sequencer] | | | | |
|----------------|-------------|----------|----------------|-------------------|---------------------------------|----------------------------|----------|-----------------------------------|------|------|------|-----|
| | | | | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW |
| 02 | 40 | 00 | 1 | 00-04 EQ TYPE | flat, jazz, pops, rock, classic | X | | X | X | X | X | X |
| | 01 | 1 | 34-4C EQ GAIN1 | -12...0...+12[dB] | X | | X | X | X | X | X | X |
| 02 | 1 | 04-28 | EQ FREQUENCY1 | 32...2.0k[Hz] | X | | X | X | X | X | X | X |
| 03 | 1 | 01-78 | EQ Q1 | 0.1...12.0 | X | | X | X | X | X | X | X |
| 04 | 1 | 00-01 | EQ SHAPE1 | shelving, peaking | X | | X | X | X | X | X | X |
| 05 | 1 | 34-4C | EQ GAIN2 | -12...0...+12[dB] | X | | X | X | X | X | X | X |
| 06 | 1 | 0E-36 | EQ FREQUENCY2 | 100...10.0k[Hz] | X | | X | X | X | X | X | X |
| 07 | 1 | 01-78 | EQ Q2 | 0.1...12.0 | X | | X | X | X | X | X | X |
| 08 | 1 | | NOT USED | - | - | | - | - | - | - | - | - |
| 09 | 1 | 34-4C | EQ GAIN3 | -12...0...+12[dB] | X | | X | X | X | X | X | X |
| 0A | 1 | 0E-36 | EQ FREQUENCY3 | 100...10.0k[Hz] | X | | X | X | X | X | X | X |
| 0B | 1 | 01-78 | EQ Q3 | 0.1...12.0 | X | | X | X | X | X | X | X |
| 0C | 1 | | NOT USED | - | - | | - | - | - | - | - | - |
| 0D | 1 | 34-4C | EQ GAIN4 | -12...0...+12[dB] | X | | X | X | X | X | X | X |
| 0E | 1 | 0E-36 | EQ FREQUENCY4 | 100...10.0k[Hz] | X | | X | X | X | X | X | X |
| 0F | 1 | 01-78 | EQ Q4 | 0.1...12.0 | X | | X | X | X | X | X | X |
| 10 | 1 | | NOT USED | - | - | | - | - | - | - | - | - |
| 11 | 1 | 34-4C | EQ GAIN5 | -12...0...+12[dB] | X | | X | X | X | X | X | X |
| 12 | 1 | 1C-3A | EQ FREQUENCY5 | 0.5k...16.0k[Hz] | X | | X | X | X | X | X | X |
| 13 | 1 | 01-78 | EQ Q5 | 0.1...12.0 | X | | X | X | X | X | X | X |
| 14 | 1 | 00-01 | EQ SHAPE5 | shelving, peaking | X | | X | X | X | X | X | X |

TOTAL SIZE 15

*The MULTI EQ Parameter cannot be reset to its factory setting with XG SYSTEM ON.

MIDI Parameter Change table (EFFECT2)

*The EFFECT2 Parameter canot be reset to its factory setting with XG SYSTEM ON.

| Address (H) | Size (H) | Data (H) | Parameter | Description | [MIDI Reception (effective or not for each part)] | | | [MIDI Transmission (generated data)] | | | | [Internal Sequencer] | |
|----------------|-------------|----------|-----------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------|----------|-----------------------------------------|------|------|------|----------------------|------------------------|
| | | | | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from Panel |
| 03 | n | 00 | 2 | 00-7F 00-7F INSERTION EFFECT TYPE MSB 00-7F INSERTION EFFECT TYPE LSB | Refer to Effect Parameter List | O | | O (Voice Setting) | O | X | O | O | O |
| | 02 | 1 | 00-7F | INSERTION EFFECT PARAMETER 1 | " | O (Depends on Insertion Type) | | O (Voice Setting) | O | X | O | O | O |
| | 03 | 1 | 00-7F | INSERTION EFFECT PARAMETER 2 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 04 | 1 | 00-7F | INSERTION EFFECT PARAMETER 3 | " | O (Depends on Insertion Type) | | O (Voice Setting) | O | X | O | O | O |
| | 05 | 1 | 00-7F | INSERTION EFFECT PARAMETER 4 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 06 | 1 | 00-7F | INSERTION EFFECT PARAMETER 5 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 07 | 1 | 00-7F | INSERTION EFFECT PARAMETER 6 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 08 | 1 | 00-7F | INSERTION EFFECT PARAMETER 7 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 09 | 1 | 00-7F | INSERTION EFFECT PARAMETER 8 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 0A | 1 | 00-7F | INSERTION EFFECT PARAMETER 9 | " | O (Depends on Insertion Type) | | X | O | X | O | O | X |
| | 0B | 1 | 00-7F | INSERTION EFFECT PARAMETER 10 | " | O (Depends on Insertion Type) | | O (Voice Setting) | O | X | O | O | O |
| | 0C | 1 | 00-7F | INSERTION EFFECT PART NUMBER | Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127) | O | | O (voice) | O | X | O | O | O |
| | 0D | 1 | 00-7F | MW INSERTION CONTROL DEPTH | -64...0...+63 | O | | X | O | X | O | O | X |
| | 0E | 1 | 00-7F | BEND INSERTION CONTROL DEPTH | -64...0...+63 | O | | X | O | X | O | O | X |
| | 0F | 1 | 00-7F | CAT INSERTION CONTROL DEPTH | -64...0...+63 | O | | X | O | X | O | O | X |
| | 10 | 1 | 00-7F | AC1 INSERTION CONTROL DEPTH | -64...0...+63 | O | | X | O | X | O | O | X |
| | 11 | 1 | 00-7F | AC2 INSERTION CONTROL DEPTH | -64...0...+63 | O | | X | O | X | O | O | X |

TOTAL SIZE 12

| | | | | | | | | | | | | | |
|----|----|----|-------|-------------------------------|-------------------------------|----------------------------------|----------------------------------|---|---|---|---|---|---|
| 02 | 01 | 20 | 1 | 00-7F | INSERTION EFFECT PARAMETER 11 | Refer to Effect Parameter List | O (Depends on Insertion Type) | X | O | X | O | O | X |
| | 21 | 1 | 00-7F | INSERTION EFFECT PARAMETER 12 | " | O (Depends on Insertion Type) | X | O | X | O | O | O | X |
| | 22 | 1 | 00-7F | INSERTION EFFECT PARAMETER 13 | " | O (Depends on Insertion Type) | X | O | X | O | O | O | X |
| | 23 | 1 | 00-7F | INSERTION EFFECT PARAMETER 14 | " | O (Depends on Insertion Type) | X | O | X | O | O | O | X |
| | 24 | 1 | 00-7F | INSERTION EFFECT PARAMETER 15 | " | O (Depends on Insertion Type) | X | O | X | O | O | O | X |
| | 25 | 1 | 00-7F | INSERTION EFFECT PARAMETER 16 | " | O (Depends on Insertion Type) | O (Voice Setting) | O | X | O | O | O | O |

TOTAL SIZE 6

| Address (H) | | | Size (H) | Data (H) | Parameter | Description | [MIDI (CLP)] | | | [Internal Sequencer] | | | | |
|----------------|-----------------|----------|-----------------------------------|----------------|------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------|---------------------|----------------------|---------------------------------------|---|---|------|-----|
| | | | | | | | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | PLAY | REC |
| Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from Panel | | | | | | |
| | | 30 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB | Refer to Effect Parameter List n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 32 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 34 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 36 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 38 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 3A | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 3C | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 3E | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 40 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB | n | ○ (Depends on Insertion Type) | | X | ○ | X | ○ | ○ | × |
| | | 42 | 2 | 00-7F 00-7F | INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB | n | ○ (Depends on Insertion Type) | | O (Voice Setting) | ○ | X | ○ | ○ | ○ |
| TOTAL SIZE | | | 14 | | | | | | | | | | | |

The second byte of the address is considered as an Insertion effect number.

n: insertion effect number

For effect types that do not require MSB, the Parameters for Address 02-0B will be received and the Parameters for Address 30-42 will not be received.

For effect types that require MSB, the Parameters for Address 30-42 will be received and the Parameters for Address 02-0B will not be received.

When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02-0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02-0B will not be received.

MIDI Parameter Change table (MULTI PART)

| Address (H) | | | Size (H) | Data (H) | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | | |
|----------------|-----------------|----------|-----------------------------------|--------------------------------|---------------------------------------------------------------------|------------------------------|-------------------|----------------------------------------------------|---|----------------------|---------------------------------------|---|---|------|-----|
| | | | | | | | | MIDI Reception (effective or not for each part) | | | MIDI Transmission (generated data) | | | PLAY | REC |
| Song | Main Layer Left | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel | | | | | | | |
| 08 | nn | 00 | 1 | 00-20 | NOT USED | | | × | × | × | × | × | × | × | × |
| | 01 | 1 | 00-7F | BANK SELECT MSB | 0...127 | part10=7F, other parts=00 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 02 | 1 | 00-7F | BANK SELECT LSB | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 03 | 1 | 00-7F | PROGRAM NUMBER | 1...128 | 00 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 04 | 1 | 00-0F, 7F | Rcv CHANNEL | 1...16, OFF | Part No. | ○ | × | × | × | ○ | X | ○ | × | × |
| | 05 | 1 | 00-01 | MONO/POLY MODE | MONO, POLY | 01 | ○ | × | × | × | ○ | X | ○ | × | × |
| | 06 | 1 | 00-02 | SAME NOTE NUMBER KEY ON ASSIGN | SINGLE, MULTI, INST (for Drum) | 01 | ○ | × | × | × | ○ | X | ○ | × | × |
| | 07 | 1 | 00-03 | PART MODE | NORMAL, DRUM, DRUMS1..2 | part10=02, other parts=00 | ○ | × | × | ○ (Drum Voice) | ○ | X | ○ | × | ○ |
| | 08 | 1 | 28-58 | NOTE SHIFT | -24...0...+24[semitones] | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 09 | 2 | 00-0F 00-0F | DETUNE | -12.8...0...+12.7[Hz] 1st bit3-0 → bit7-4 2nd bit3-0 → bit3-0 | 08 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 0B | 1 | 00-7F | VOLUME | 0...127 | 64 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 0C | 1 | 00-7F | VELOCITY SENSE DEPTH | 0...127 | 40 | ○ | ○ | × | ○ (Voice Setting) | ○ | X | ○ | ○ | ○ |
| | 0D | 1 | 00-7F | VELOCITY SENSE OFFSET | 0...127 | 40 | ○ | ○ | × | ○ (Voice Setting) | ○ | X | ○ | ○ | ○ |
| | 0E | 1 | 00-7F | PAN | RND, L63...C...R63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 0F | 1 | 00-7F | NOTE LIMIT LOW | C-2...G8 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 10 | 1 | 00-7F | NOTE LIMIT HIGH | C-2...G8 | 7F | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 11 | 1 | 00-7F | DRY LEVEL | 0...127 | 7F | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 12 | 1 | 00-7F | CHORUS SEND | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 13 | 1 | 00-7F | REVERB SEND | 0...127 | 28 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 14 | 1 | 00-7F | VARIATION SEND | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 15 | 1 | 00-7F | VIBRATO RATE | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 16 | 1 | 00-7F | VIBRATO DEPTH | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 17 | 1 | 00-7F | VIBRATO DELAY | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 18 | 1 | 00-7F | FILTER CUTOFF FREQUENCY | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 19 | 1 | 00-7F | FILTER RESONANCE | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 1A | 1 | 00-7F | EG ATTACK TIME | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 1B | 1 | 00-7F | EG DECAY TIME | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 1C | 1 | 00-7F | EG RELEASE TIME | -64...0...+63 | 40 | ○ | ○ | × | × | ○ | X | ○ | ○ | ○ |
| | 1D | 1 | 28-58 | MW PITCH CONTROL | -24...0...+24[semitones] | 40 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 1E | 1 | 00-7F | MW LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 1F | 1 | 00-7F | MW AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 20 | 1 | 00-7F | MW LFO PMOD DEPTH | 0...127 | 0A | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 21 | 1 | 00-7F | MW LFO FMOD DEPTH | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 22 | 1 | 00-7F | MW LFO AMOD DEPTH | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 23 | 1 | 28-58 | BEND PITCH CONTROL | -24...0...+24[semitones] | 42 | ○ | ○ | × | × | ○ | X | ○ | ○ | × |
| | 24 | 1 | 00-7F | BEND LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 25 | 1 | 00-7F | BEND AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 26 | 1 | 00-7F | BEND LFO PMOD DEPTH | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 27 | 1 | 00-7F | BEND LFO FMOD DEPTH | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |
| | 28 | 1 | 00-7F | BEND LFO AMOD DEPTH | 0...127 | 00 | ○ | ○ | × | × | ○ | X | ○ | × | × |

TOTAL SIZE 29

| Address (H) | Size (H) | Data (H) | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | |
|----------------|-------------|-------------|-----------|-----------------------------|--------------------------|-------------------------|----------------------------|----------|-----------------------------------|------|------|------|-----|------------------------|
| | | | | | | Song | Main Layer Left Left-layer | Keyboard | Panel (main generation method) | Song | MIDI | PLAY | REW | Recorded from panel |
| | 30 | 1 | 00-01 | Rcv PITCH BEND | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 31 | 1 | 00-01 | Rcv CH AFTER TOUCH (CAT) | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 32 | 1 | 00-01 | Rcv PROGRAM CHANGE | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 33 | 1 | 00-01 | Rcv CONTROL CHANGE | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 34 | 1 | 00-01 | Rcv POLY AFTER TOUCH (PAT) | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 35 | 1 | 00-01 | Rcv NOTE MESSAGE | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 36 | 1 | 00-01 | Rcv RPN | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 37 | 1 | 00-01 | Rcv NRPN | OFF, ON | XGmode=01, GMmode=00 | ○ | × | × | × | ○ | × | ○ | × |
| | 38 | 1 | 00-01 | Rcv MODULATION | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 39 | 1 | 00-01 | Rcv VOLUME | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3A | 1 | 00-01 | Rcv PAN | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3B | 1 | 00-01 | Rcv EXPRESSION | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3C | 1 | 00-01 | Rcv HOLD1 | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3D | 1 | 00-01 | Rcv PORTAMENTO | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3E | 1 | 00-01 | Rcv SOSTENUTO | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 3F | 1 | 00-01 | Rcv SOFT PEDAL | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 40 | 1 | 00-01 | Rcv BANK SELECT | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 41 | 1 | 00-7F | SCALE TUNING C | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 42 | 1 | 00-7F | SCALE TUNING C# | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 43 | 1 | 00-7F | SCALE TUNING D | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 44 | 1 | 00-7F | SCALE TUNING D# | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 45 | 1 | 00-7F | SCALE TUNING E | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 46 | 1 | 00-7F | SCALE TUNING F | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 47 | 1 | 00-7F | SCALE TUNING F# | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 48 | 1 | 00-7F | SCALE TUNING G | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 49 | 1 | 00-7F | SCALE TUNING G# | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 4A | 1 | 00-7F | SCALE TUNING A | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 4B | 1 | 00-7F | SCALE TUNING A# | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 4C | 1 | 00-7F | SCALE TUNING B | -63...0...+63[cent] | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 4D | 1 | 28-58 | CAT PITCH CONTROL | -24...0...+24[semitones] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 4E | 1 | 00-7F | CAT LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 4F | 1 | 00-7F | CAT AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 50 | 1 | 00-7F | CAT LFO PMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | ○ |
| | 51 | 1 | 00-7F | CAT LFO FMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | ○ |
| | 52 | 1 | 00-7F | CAT LFO AMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | ○ |
| | 53 | 1 | 28-58 | PAT PITCH CONTROL | -24...0...+24[semitones] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 54 | 1 | 00-7F | PAT LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 55 | 1 | 00-7F | PAT AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 56 | 1 | 00-7F | PAT LFO PMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 57 | 1 | 00-7F | PAT LFO FMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 58 | 1 | 00-7F | PAT LFO AMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 59 | 1 | 00-5F | AC1 CONTROLLER NUMBER | 0...95 | 10 | ○ | × | × | × | ○ | × | ○ | × |
| | 5A | 1 | 28-58 | AC1 PITCH CONTROL | -24...0...+24[semitones] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 5B | 1 | 00-7F | AC1 LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 5C | 1 | 00-7F | AC1 AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 5D | 1 | 00-7F | AC1 LFO PMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 5E | 1 | 00-7F | AC1 LFO FMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 5F | 1 | 00-7F | AC1 LFO AMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 60 | 1 | 00-5F | AC2 CONTROLLER NUMBER | 0...95 | 11 | ○ | × | × | × | ○ | × | ○ | × |
| | 61 | 2 | 28-58 | AC2 PITCH CONTROL | -24...0...+24[semitones] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 62 | 1 | 00-7F | AC2 LOW PASS FILTER CONTROL | -9600...0...+9450[cent] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 63 | 1 | 00-7F | AC2 AMPLITUDE CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 64 | 1 | 00-7F | AC2 LFO PMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 65 | 1 | 00-7F | AC2 LFO FMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 66 | 1 | 00-7F | AC2 LFO AMOD DEPTH | 0...127 | 00 | ○ | × | × | × | ○ | × | ○ | × |
| | 67 | 1 | 00-01 | PORTAMENTO SWITCH | OFF, ON | 00 | ○ | ○ | × | × | ○ | × | ○ | ○ |
| | 68 | 1 | 00-7F | PORTAMENTO TIME | 0...127 | 00 | ○ | ○ | × | × | ○ | × | ○ | ○ |
| | 69 | 1 | 00-7F | PITCH EG INITIAL LEVEL | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 6A | 1 | 00-7F | PITCH EG ATTACK TIME | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 6B | 1 | 00-7F | PITCH EG RELEASE LEVEL | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 6C | 1 | 00-7F | PITCH EG RELEASE TIME | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | × |
| | 6D | 1 | 00-7F | VELOCITY LIMIT LOW | 1...127 | 01 | ○ | × | × | × | ○ | × | ○ | × |
| | 6E | 1 | 00-7F | VELOCITY LIMIT HIGH | 1...127 | 7F | ○ | × | × | × | ○ | × | ○ | × |

TOTAL SIZE 3F

| | | | | | | | | | | | | | | |
|--|----|---|----------|----------------|---------------|----|---|---|-----------------|---|---|---|---|---|
| | 70 | 1 | NOT USED | | - | - | - | - | - | - | - | - | - | |
| | 71 | 1 | NOT USED | | - | - | - | - | - | - | - | - | - | |
| | 72 | 1 | 00-7F | EQ BASS GAIN | -12dB...+12dB | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | 73 | 1 | 00-7F | EQ TREBLE GAIN | -12dB...+12dB | 40 | ○ | ○ | × | ○ | ○ | × | ○ | ○ |
| | | | | | | | | | (Voice Setting) | | | | | |
| | | | | | | | | | (Voice Setting) | | | | | |

TOTAL SIZE 04

| Address (H) | | | Size (H) | Data (H) | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | | |
|----------------|----|---|-------------|---------------------|-----------------|-----------------|-------------------|--------------|----------------------------|----------|---------------------------------------------------|---------------------------------------|---|---|------|
| | | | | | | | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (effective or no for each part) | MIDI Transmission (generated data) | | | PLAY |
| | | | | | | | | | | | | | | | |
| | 74 | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 75 | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 76 | 1 | 04-28 | EQ BASS FREQUENCY | 32...2.0k[Hz] | 32...2.0k[Hz] | 0C | ○ | ○ | × | ○ (Voice Setting) | ○ | × | ○ | ○ |
| | 77 | 1 | 1C-3A | EQ TREBLE FREQUENCY | 500...16.0k[Hz] | 500...16.0k[Hz] | 36 | ○ | ○ | × | ○ (Voice Setting) | ○ | × | ○ | ○ |
| | 78 | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 78 | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7A | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7B | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7C | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7D | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7E | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| | 7F | 1 | | | NOT USED | | - | - | - | - | - | - | - | - | - |
| TOTAL SIZE | | | 0C | | | | | | | | | | | | |

TOTAL SIZE 0C

| | | | | | | | | | | | | | | | | |
|----|----|-------|---|-------|---------------------------|--------------------|----|---|---|---|---|---|---|---|---|---|
| 0A | nn | 40 | 1 | 00-7F | MW OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 41 | 1 | 00-7F | | | BEND OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 42 | 1 | 00-7F | | | CAT OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 43 | 1 | 00-7F | | | PAT OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 44 | 1 | 00-7F | | | AC1 OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| 45 | 1 | 00-7F | | | AC2 OFFSET LEVEL CONTROL | -100...0...+100[%] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |

TOTAL SIZE 06

nn = PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.

- BANK SELECT LSB
- PORTAMENTO
- MONO/POLY
- SCALE TUNING
- POLY AFTER TOUCH
- PITCH EG

MIDI Parameter Change table (DRUM SETUP)

| Address (H) | | | Size (H) | Data (H) | Parameter | Description | XG Default (H) | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | |
|----------------|----|----|-------------|-------------|----------------------------------|---------------------|---------------------|--------------|----------------------------|----------|---------------------------------------------------|---------------------------------------|---|---|------|-----|
| | | | | | | | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (effective or no for each part) | MIDI Transmission (generated data) | | | PLAY | REC |
| | | | | | | | | | | | | | | | | |
| 3n | rr | 00 | 1 | 00-7F | PITCH COARSE | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | × | × |
| | 01 | 1 | 00-7F | | PITCH FINE | -64...0...+63[cent] | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 02 | 1 | 00-7F | | LEVEL | 0...127 | Depends on the note | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 03 | 1 | 00-7F | | ALTERNATE GROUP | OF, 0...127 | Depends on the note | ○ | × | × | × | ○ | × | ○ | × | × |
| | 04 | 1 | 00-7F | | PAN | RND, L63...C...R63 | Depends on the note | ○ | × | × | × | ○ | × | ○ | × | × |
| | 05 | 1 | 00-7F | | REVERB SEND | 0...127 | Depends on the note | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 06 | 1 | 00-7F | | CHORUS SEND | 0...127 | Depends on the note | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 07 | 1 | 00-7F | | VARIATION SEND | 0...127 | 7F | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 08 | 1 | 00-01 | | KEY ASSIGN | SINGLE, MULTI | 00 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 09 | 1 | 00-01 | | Rcv NOTE OFF | OFF, ON | Depends on the note | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0A | 1 | 00-01 | | Rcv NOTE ON | OFF, ON | 01 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0B | 1 | 00-7F | | LOW PASS FILTER CUTOFF FREQUENCY | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0C | 1 | 00-7F | | LOW PASS FILTER RESONANCE | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0D | 1 | 00-7F | | EG ATTACK RATE | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0E | 1 | 00-7F | | EG DECAY1 RATE | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |
| | 0F | 1 | 00-7F | | EG DECAY2 RATE | -64...0...+63 | 40 | ○ | × | × | × | ○ | × | ○ | ○ | × |

TOTAL SIZE 10

| | | | | | | | | | | | | | | | |
|--|----|---|-------|---------------------|-----------------|----|---|---|---|---|---|---|---|---|---|
| | 20 | 1 | 00-7F | EQ BASS GAIN | -12dB...+12dB | 40 | × | × | × | × | × | × | × | × | × |
| | 21 | 1 | 00-7F | EQ TREBLE GAIN | -12dB...+12dB | 40 | × | × | × | × | × | × | × | × | × |
| | 22 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 23 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 24 | 1 | 04-28 | EQ BASS FREQUENCY | 32...2.0k[Hz] | 0C | × | × | × | × | × | × | × | × | × |
| | 25 | 1 | 1C-3A | EQ TREBLE FREQUENCY | 500...16.0k[Hz] | 36 | × | × | × | × | × | × | × | × | × |
| | 26 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 27 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 28 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 29 | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 2A | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 2B | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 2C | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |
| | 2D | 1 | | NOT USED | | - | - | - | - | - | - | - | - | - | - |

TOTAL SIZE 0E

n: Drum Setup Number (0-1)

rr: note number (0D-5B)

In the following cases, the Clavinova will initialize all Drum Sets.

XG SYSTEM ON received

GM SYSTEM ON received

GM LEVEL 2 SYSTEM ON received

GS RESET received

DRUM SETUP RESET received (only when in XG mode)

When a part to which a Drum Setup is assigned receives a program change, the assigned Drum Setup will be initialized.
If the same Drum Setup is assigned to two or more parts, changes in Drum Setup parameters (including program changes) will apply to all parts to which it is assigned.

System Exclusive Messages (1)

- * Not Received when Receive Parameter System Exclusive is set to off.
- * Not transmitted when Transmit Parameter System Exclusive is set to on.

System Exclusive Messages (Universal Realtime messages)

| MIDI Event | Data Format | [MIDI (CLP)] | | | MIDI Reception (affecting the panel) | [Internal Sequencer] | | | | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------|-----------------------------------------|-----------------------------------|------|------|------|-----|
| | | Song | Main Layer Left | Keyboard | | Panel (main generation method) | Song | MIDI | PLAY | REC |
| Master Volume [GM2] | F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 0sssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive | ○ | × | × | × | × | × | ○ | ○ | × |
| Master Fine Tuning [GM2] | F0 7F XN 04 03 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 03 = Sub-ID #2=Master Fine Tuning 0sssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive | ○ | × | × | × | × | ○ | ○ | ○ | × |
| Master Coarse Tuning [GM2] | F0 7F XN 04 04 00 TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000100 04 = Sub-ID #2=Master Fine Tuning 00000000 00 0ttttttt TT = Coarse Tuning MSB 11110111 F7 = End of Exclusive | ○ | × | × | × | × | ○ | ○ | ○ | × |
| Reverb Parameter [GM2] | F0 7F XN 04 05 01 01 01 01 01 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000101 05 = Sub-ID #2=Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 (Reverb) 00000001 01 = Slot path LSB = 1 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. ... 11110111 F7 = End of Exclusive Parameter (pp) Value (vv) Display ----- pp=0 Reverb Type 0...8 0: RoomS 1: RoomM 2: RoomL 3: HallM 4: HallL (default) 8: GM Plate pp=1 Reverb Time 0...128 0...11.0s | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × |
| Chorus Parameter [GM2] | F0 7F XN 04 05 01 01 01 01 02 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000101 05 = Sub-ID #2=Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 (Chorus) 00000010 02 = Slot path LSB = 2 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. ... 11110111 F7 = End of Exclusive Parameter (pp) Value (vv) Display ----- pp=0 Chorus Type 0...5 0: GM Chorus1 1: GM Chorus2 2: GM Chorus3 (default) 3: GM Chorus4 4: FB Chorus 5: GM Flanger pp=1 Mod Rate 0...127 0...15.5Hz pp=2 Mod Depth 0...127 pp=3 Feedback 0...127 pp=4 Send to Reverb 0...127 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × |

| MIDI Event | Data Format | [MIDI (CLP)] | | | | [Internal Sequencer] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------|-------------|-----------------------------------------|---------------------------------------|---------|-------------------------|------|-----------------------------|---------|-----------------------------|----------------|--------------------------|---------|-----------------------|----------------|--------------------------|---------|-----------------------|----------------|------------------------|---------|---------|-----|---------------------------|---------|---------|-----|---|---|---|---|---|---|---|---|---|
| | | MIDI Reception (effective or not for each part) | | | MIDI Reception (affecting the panel) | MIDI Transmission (generated data) | | | PLAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Song | Main Layer Left | Keyboard | | Panel (main generation method) | Song | MIDI | PLAY | REW | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel Pressure (Aftertouch) [GM2] | <p>FO 7F XN 09 01 0M PP RR ... F7 11110000 FO = Exclusive status 01111111 7F = Universal Real Time 0xxxmnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=Controller Destination Setting 00000001 01 = Sub-ID #2=Controller Type: 01 (Channel Pressure) 0000mmmm 0M = MIDI Channel (00-0F) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Data ... 11110111 F7 = End of Exclusive</p> <table border="1"> <thead> <tr> <th>Control Parameter (pp)</th> <th>Data (RR)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H-58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table> | Control Parameter (pp) | Data (RR) | Description | Default value | pp=00 Pitch Control | 28H-58H | -24...0...+24 semitones | 40H | pp=01 Filter Cutoff Control | 00H-7FH | -9600...0...+9450 cents | 40H | pp=02 Amplitude Control | 00H-7FH | -100...0...+100% | 40H | pp=03 LFO Pitch Depth | 00H-7FH | 0...127 | 00H | pp=04 LFO Filter Depth | 00H-7FH | 0...127 | 00H | pp=05 LFO Amplitude Depth | 00H-7FH | 0...127 | 00H | ○ | × | × | × | × | ○ | × | ○ | × |
| Control Parameter (pp) | Data (RR) | Description | Default value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=00 Pitch Control | 28H-58H | -24...0...+24 semitones | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=01 Filter Cutoff Control | 00H-7FH | -9600...0...+9450 cents | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=02 Amplitude Control | 00H-7FH | -100...0...+100% | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=03 LFO Pitch Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=04 LFO Filter Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=05 LFO Amplitude Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Controller (Control Change) [GM2] | <p>FO 7F XN 09 03 0M CC PP RR ... F7 11110000 FO = Exclusive status 01111111 7F = Universal Real Time 0xxxmnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=Controller Destination Setting 00000011 03 = Sub-ID #2=Controller Type: 03 (Control Change) 0000mmmm 0M = MIDI Channel (00-0F) 0ccccccc CC = Controller Number (01H-1FH, 40H-5FH) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Data ... 11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Control Parameter (pp)</th> <th>Data (RR)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H-58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table> | Control Parameter (pp) | Data (RR) | Description | Default value | pp=00 Pitch Control | 28H-58H | -24...0...+24 semitones | 40H | pp=01 Filter Cutoff Control | 00H-7FH | -9600...0...+9450 cents | 40H | pp=02 Amplitude Control | 00H-7FH | -100...0...+100% | 40H | pp=03 LFO Pitch Depth | 00H-7FH | 0...127 | 00H | pp=04 LFO Filter Depth | 00H-7FH | 0...127 | 00H | pp=05 LFO Amplitude Depth | 00H-7FH | 0...127 | 00H | ○ | × | × | × | × | ○ | × | ○ | × |
| Control Parameter (pp) | Data (RR) | Description | Default value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=00 Pitch Control | 28H-58H | -24...0...+24 semitones | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=01 Filter Cutoff Control | 00H-7FH | -9600...0...+9450 cents | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=02 Amplitude Control | 00H-7FH | -100...0...+100% | 40H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=03 LFO Pitch Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=04 LFO Filter Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pp=05 LFO Amplitude Depth | 00H-7FH | 0...127 | 00H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Key-Based Instrument Control [GM2] | <p>FO 7F XN 0A 01 0M KK CC VV ... F7 11110000 FO = Exclusive status 01111111 7F = Universal Real Time 0xxxmnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001010 0A = Sub-ID #1=Key-Based Instrument Control 00000011 01 = Sub-ID #2=Controller 0000mmmm 0M = MIDI Channel (00-0F) 0kkkkkkk KK = Key Number 0ccccccc CC = Controller Number 0vvvvvv VV = Value ... 11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled number and the value.</p> <table border="1"> <thead> <tr> <th>Control Number (CC)</th> <th>Value (VV)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>CC=07H Volume</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40</td> </tr> <tr> <td>CC=0AH Pan</td> <td>00H-7FH</td> <td>L63...C...R63 (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5BH Reverb Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5DH Chorus Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> </tbody> </table> | Control Number (CC) | Value (VV) | Description | Default value | CC=07H Volume | 00H-7FH | -100...0...+100% | 40 | CC=0AH Pan | 00H-7FH | L63...C...R63 (absolute) | (Preset value) | CC=5BH Reverb Send Level | 00H-7FH | 0...Max (absolute) | (Preset value) | CC=5DH Chorus Send Level | 00H-7FH | 0...Max (absolute) | (Preset value) | ○ | × | × | × | × | ○ | × | ○ | × | | | | | | | | |
| Control Number (CC) | Value (VV) | Description | Default value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CC=07H Volume | 00H-7FH | -100...0...+100% | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CC=0AH Pan | 00H-7FH | L63...C...R63 (absolute) | (Preset value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CC=5BH Reverb Send Level | 00H-7FH | 0...Max (absolute) | (Preset value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CC=5DH Chorus Send Level | 00H-7FH | 0...Max (absolute) | (Preset value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

System Exclusive Messages (Universal Non Realtime messages)

| MIDI Event | Data Format | [MIDI (CLP)] | | | [Internal Sequencer] | | | | | | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|----------|------------------------------------------------|------------------------------------|---|---|------|-----|---|
| | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (affecting the panel) | MIDI Transmission (generated data) | | | PLAY | REC | |
| GM1 System On [GM1] [GM2] | F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive | ○ | × | × | ○ (Voice Setting, Reverb Type, Chorus Type) | × | ○ | × | ○ | × | ○ |
| GM2 System On [GM2] | F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive | ○ | × | × | × | × | ○ | × | ○ | × | × |
| General MIDI System Off [GM1] [GM2] | F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000010 02 = Sub-ID #2=General MIDI Off 11110111 F7 = End of Exclusive | ○ | × | × | ○ (Voice Setting, Reverb Type, Chorus Type) | × | ○ | × | ○ | × | × |
| Scale/Octave Tuning [GM2] | F0 7E XN 08 08 JJ GG MM SS ... F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte 2 - bits 0 to 6 = channel 8 to 14 0mmmmmmm MM= Channel byte 2 - bits 0 to 6 = channel 1 to 7 0sssssss SS = 12 byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent ... 11110111 F7 = End of Exclusive | ○ | × | × | × | × | ○ | × | ○ | × | × |

*If the song data to be loaded contains a GM2 System On event, the Bank MSB/LSB values will be removed.

System Exclusive Messages (2)

* Not Received when Receive Parameter System Exclusive is set to off.
 * Not transmitted when Transmit Parameter System Exclusive is set to on.

System Exclusive Messages (XG)

| MIDI Event | Data Format | [MIDI (CLP)] | | | [Internal Sequencer] | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------|----------|--------------------------------------|------------------------------------|
| | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (affecting the panel) | MIDI Transmission (generated data) |
| XG Parameter Change | F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0dddddः dd = Data ... 11110111 F7 = End of Exclusive | * Refer to Parameter Change Table | | | - | * Refer to Parameter Change Table |
| XG Bulk Dump | F0 43 On 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0dddddः dd = Data ... 0dddddः dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive | * Refer to Parameter Change Table | | | - | * Refer to Parameter Change Table |
| XG Parameter Request | F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive | * Refer to Parameter Change Table | | | - | × |
| XG Dump Request | F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive | * Refer to Parameter Change Table | | | - | × |

System Exclusive Messages (Others)

| MIDI Event | Data Format | [MIDI (CLP)] | | | [Internal Sequencer] | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|----------|--------------------------------------|------------------------------------|
| | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (affecting the panel) | MIDI Transmission (generated data) |
| IMIDI Master Tuning | F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = always 0 (when transmit), n=0-F (when receive) 00100000 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 00000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive | ○ | | | ○ (Function) | × |

System Exclusive Messages (Preset voice)

| MIDI Event | Data Format | [MIDI (CLP)] | | | [Internal Sequencer] | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------|----------|--------------------------------------|------------------------------------|
| | | Song | Main Layer Left Left-layer | Keyboard | MIDI Reception (affecting the panel) | MIDI Transmission (generated data) |
| String Resonance Depth | F0 43 73 01 50 11 0n 02 dd F7 11100000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01100111 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 51 = SubID 00010001 11 = SubID 0000nnnn 0n = Channel (00-0F) 00000010 02 = SubID (String Resonance Depth) 0ddddd ddd = Depth (00-48) 11101111 F7 = End of Exclusive | O | O | X | O (Function) | O (Function) O |
| Sustain Sample Depth | F0 43 73 01 50 11 0n 03 dd F7 11100000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01100111 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 51 = SubID 00010001 11 = SubID 0000nnnn 0n = Channel (00-0F) 00000011 03 = SubID (Sustain Sample Depth) 0ddddd ddd = Depth (00-48) 11101111 F7 = End of Exclusive | O | O | X | O (Function) | O (Function) O |
| Key Off Sampling Depth | F0 43 73 01 50 11 0n 04 dd F7 11100000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01100111 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 51 = SubID 00010001 11 = SubID 0000nnnn 0n = Channel (00-0F) 00000100 04 = SubID (Key Off Sampling Depth) 0ddddd ddd = Depth (00-50) 11101111 F7 = End of Exclusive | O | O | X | O (Function) | O (Function) O |
| Soft Pedal Depth | F0 43 73 01 50 11 0n 05 dd F7 11100000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01100111 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 51 = SubID 00010001 11 = SubID 0000nnnn 0n = Channel (00-0F) 00000101 04 = SubID (Soft Pedal Depth) 0ddddd ddd = Depth (00-7F) 11101111 F7 = End of Exclusive | O | O | X | O (Function) | O (Function) O |

*For each Depth value, the reset value is 40H = voice parameter.

| Function... | | Transmitted | Recognized | Remarks |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Channel | Default Changed | 1 - 16 1 - 16 | 1 - 16 1 - 16 | |
| Mode | Default Messages Altered | 3 X ***** | 3 X X | |
| Note Number : True voice | | 0 - 127 ***** | 0 - 127 0 - 127 | |
| Velocity | Note ON Note OFF | O 9nH, v=1-127 X 9nH, v=0 | O 9nH, v=1-127 X 9nH, v=0 or 8nH | |
| After Touch | Key's Ch's | X X | O O | |
| Pitch Bend | | O | O 0 - 24 semi | |
| Control Change | 0,32 1,5 7,10,11 6,38 64,66,67 65 71,74 72,73 84,94 91,93 96-97 98-99 100-101 | O X O O O X O X O X O X O X O O | O O O O O O O O O O O O O O O | Bank Select Data Entry Portament Sound Controller Sound Controller RPN Inc, Dec NRPN LSB, MSB RPN LSB, MSB |
| Prog Change : True # | | O 0 - 127 ***** | O 0 - 127 | |
| System Exclusive | | O | O | |
| Common : Song Pos. : Song Sel. : Tune | | X X X | X X X | |
| System : Clock Real Time : Commands | | O O | X O | |
| Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset | | X X X X O X | O (120,126,127) O (121) O (122) O (123-125) O X | |
| Notes: | | | | |

Mode 1 : OMNI ON , POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON , MONO
Mode 4 : OMNI OFF, MONO

O : Yes
X : No

MEMO

MEMO



Clavinova Web site (English only)
<http://www.yamahaclavinova.com/>

Yamaha Manual Library
<http://www.yamaha.co.jp/manual/english/>